gccaatgatt gtgatttgga accggttgct tatgagttct ttactcaagc attcatctta 120

tatgaagaag aaatagcgga ttctaaggct caaattactg cacttcacct aataattgga 180

acccttcagc ggatgaatat atttggggtg gaaaatagag acaccctcac tcataagaca 240

acagggtact cagcaaaact tctaaagaag cctgatcaat gccgggcagt ctatgcatgt 300

tcgcaccttt tctggactga tgaccaagat ggaatcactg atggtgaaag ggtcctcctt 360

tgcttaaagc gtgccttgag aattgcaaat gctgcttcac aaatggccaa tgtatcacag 420

ggaagcagcg gatctgtcat tctattcatt gaaattttga acaagtatct gtacttcttt 480

gaga 484

<210> 3471
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316113a12b1

<400> 3471

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aaggtggacc ccataaccat actattactg gccttgccga tgcgcttaag caggcaacta 120

ctcaggagta cagagcttat caagagcaag ttatgagtaa ctctgctaga tttgctgaga 180

gcttaacttc aaaaggctac gacattgtct ctggtgggac tgataaccat ttagttttgg 240

tgaacctcaa gaaaaaggga atagatggct cacgagtgga gaaggtttta gaaaatgtgc 300

atattgcagc aaacaagaac acagttcctg gtgatgtttc aactatggta cccggaggca 360

tcatgatggg aacccccgcg cttaca 386

<210> 3472
<211> 334
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316113b04b1

<400> 3472

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gacgcctacg cgccccggcc gtccaagctc cgtgcagtgg tctgccagtc cgacccgtcc 180

aagccggagg ccttcgggtg cgccacctac gacggggtca tcagcgaaca cgtctcgctg 240

cgtacatgga aggtgccaca cacgctccgg tcctccgcgc tgatggtgtc ctggaagccc 300

gtccctatgg agcagcgcgt gagggacacg tgcc 334

<210> 3473
<211> 113
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316113c01b1

<400> 3473

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ggggcagacc agaaagagga gcaggaagac acaaggccca agcgggacac cgc 113

<210> 3474
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316113c10b1

<400> 3474

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tggcatgcac caacatggcg ccggccacct ccagattcat gctggcggcg ggcatcccca 120

gctgtaccaa cggctgcatg agcaaccatg aactggttgc ccccctcaac cgactgggct 180

tgcagctcgt cgcccatgcc agggtggcgg ccactgacga cgaactggcg ctaccagtgg 240

cagacgtgaa agag 254

<210> 3475
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316113e06b1

<400> 3475

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gaaaatttga gcgagaaata cataattggg tacggggcat ctagtacagt ttataaatgt 180

gttctgaaga actgcaagcc agtggcaatc aaaaagctat atgctcacta cccgcagagt 240

gtaaaggaat ttgagactga gctcgagaca attggaagta tcaaacaccg gaatcttgtc 300

agccttcagg cttactcgct atcacctgct gggaatcttc tcttctacga gtatatggaa 360

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gaggctagac tccagattgc tcttggcact g 451

<210> 3476
<211> 122
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115a04b1

<400> 3476

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gggagcgcac catgagagag acagaaccgc tgaagcggtg gaggcacccc gaagagagcg 120

ag 122

<210> 3477
<211> 349
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115b04b1

<400> 3477

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agcaaagatg gacccgaagc tagaggcgta ggtctacgtg ggggtgtccg taggcgagac 120

cggaggcgat gactggctgg cccccaagat cgggcccatg agcctgtccc tcaagatgat 180

cggcgaggag atcggcgagg agaccgccaa ggactcggag gaggtctgga agagcctcaa 240

ggtcaccgtc cagaacagcg aggacaaggt ctatgtcaaa gcttcggtcg tggctctcgt 300

catcgagctc ctcaatgagc cccttaagga cacgcagaag ggcaagaac 349

<210> 3478
<211> 276
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115b05b1

<400> 3478

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gctcgctagg aaggaagcca tggagatcgg gtctctggcg ccgcgtgaga ggccgcacgc 120

cgtgatgatc ccgtacccgg ctcaaggcca catcacgccg atgatgaagc tggccaagct 180

gctccacgcc aggggcttcc acgttatctt cgtcaacaac gagttcaacc accggcgcct 240

gctgcgctcc cagtccggcg acaggctacg tgggct 276

<210> 3479
<211> 473
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115b07b1

<400> 3479

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tgctgcggag gaagctgcgg ctgcggcagc gcctgcaagt gcggcaacgg ctgcggcggc 120

tgcaacatgt acccggaggc tgaggccgcc ggcgccaccc tcctcgtctc cgccaccgcc 180

acccacaagg cgagctccgg cgggatggag atggcggcgg agaacggcgg ctgcggctgc 240

acccagtgca agtgcggcac cagctgcggc tgctcctgct gcagctgcta gatcatcgat 300

catcgatcat cgaccatgca tgcacctgcc gcgcgcgtgc atcatatcta tgatcgatcg 360

gtccatctac taccatgtgt aacgccacct ggtcgagggg ctttgatgta tgtaagcacc 420

tgccagcatg agcagagcat gtgcacttcc atgcatgtaa accgacccct aat 473

<210> 3480
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115b09b1

<400> 3480

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agctccgcac ccaggtggtc gctccggcgg cagcaacaca gtcgtcgtca tcggtgttga 120

tgaggagcgt aggcacaaag atgacgccaa gattgacagc taggagcagt cgaggagcgg 180

cactctagcc ggtgcatgcc aatcaaatga aggcggaggc gtagaacaac atgaccaaga 240

agtaggcgag atcgaggcga gaaaggacgg ccgggtagcc cgatcggcgc gataggtgga 300

gcgcatccgg aagatcgacc gcatgtcgtc ccggttccag tgttgcgact gattcctgag 360

ctgaaaaata aacaaaat 378

<210> 3481
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316115b10b1

<400> 3481

aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagagag caaaaaaaaa agaaaggcag 60

gcgaagcaaa aacagggcgg ccggaaaaaa aggaaacaca agcgccacaa aaagcagccg 120

gggggccgg aagagagaac ccagggtcca cggacaaaaa aggcagggcc acagctttac 180

aacggggcac caggaaaaaa tttatcgggc ccaagcttaa agacgctgga aaacaaaacc 240

cctgggcgcg cccaaccaaa accgacgggg gcccaacccc ccctaccc 288

<210> 3482
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316115c01b1

<400> 3482

actgtatgag tggttgatgc atgcttttgc agctcaatct gaagttcgta gaccagaaat 60

aatattgaat aaatgatgca ccttgacgag ttagattgtc ggcagcatct catcttctca 120

tcttcaagtt tgagttgcgc caaccacata taatgtgcct cgtcgtcgag tcaacaagcg 180

gctgccggct gcgtcttgtc tccaagccct aatcagcagg tggattgatt ttaatgaaag 240

aagaacgatg catgttaatg cggtgctaac aagatttgaa tctgaatgtg ccttatccct 300

attagtattg aacaaacttt caaactccac gggaccactt ctgattagca cctaattaac 360

taacttaatg ctaaggaggg ttggtgcgat 390

<210> 3483
<211> 473
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115c06b1

<400> 3483

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cgtccggctg ctgggctact gcgtcgaggg agcgcaccgg atcctggtgt acgagtacgt 120

cgacaatggc aacctggagc agtggcttca cggcgacgtc gggcccgtca gcccgctctc 180

ctgggacgcc cggatggaca tcgtgctcgg gacagccaaa gggatcacgt acctgcacga 240

ggggctggag cccaaggtgg tgcacaggga catcaagtcc agcaacatac tgctggacaa 300

gcggtggaac tccaaggtct ccgacttcgg cctcgccaag ctccttggct ccgacagcaa 360

ctacgtcacc accagagtca tgggaacatt tggctacgtg gcgccggagt acgcgagcac 420

cggcatgctg aacgagagga gcgacgtgta cagcttcggg gtgctcatca tgg 473

<210> 3484
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115c09b1

<400> 3484

ctacccccac cgccgccgtc gccgcccgcg tccaccatgg tgctgccgaa ccagaacacc 60

gtcgattacc ccagcttcaa gctcgtcatc gtcggcgatg gcgggactgg caaaaccaca 120

tttgtgaaga ggcatctcac tggagagttt gagaagaaat acgaacccac cattggtgtt 180

gaagttcacc cgttggattt caccactaac tgtggaaaga tccgtttcta ctgctgggac 240

actgctgggc aagagaagtt tggtggcctt agggatggat actatatcca tggtcagggt 300

gcgattatca tgtctgatgt cacttcaagg ctgaccta 338

<210> 3485
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115c11b1

<400> 3485

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gcagacacag ctcaatgtac atttggcggc ccctgatact ggtgggtact gaacaccggc 120

agaatcatgg ataattgcgg tggatgtgaa aatatgtgga gcgagtcaga gataccagat 180

gaacggtatg ggccgcctat gatggctaaa agaaaaccag cacaccacag ttgcacagac 240

taaaaggaac gaactactga ttgtc 265

<210> 3486
<211> 218
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115e01b1

<400> 3486

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aagggcggag agggtctggg gaggcttgca ctaccccaga tgggctgact gtcatcctgc 180

tgtcgatggg agaccgactt gtgaaccttg tgatccag 218

<210> 3487
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115e07b1

<400> 3487

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ctgcaaagct catgaatttc ccctcgacgg cgaggattac gccagagccc ctcggcctcg 120

tgctcgtcat ctccgcctgg aactaccctc tcttgctgtc cctggacccg gtcatcggtg 180

cgatcgccgc cggcaacgcc gttgcgctga agccgtctga gggggcacca gccatgtcgt 240

cgctgctggc cgagctgctg ccgcggttcg tggacggcac ctgcatcaag gtcatcgagg 300

gcggcgtcaa ggagaccacc gcgctcctaa accagaagtg ggacaaaatc ttctacacag 360

gcaacagtag agtcggacgc gtcgtgatg 389

<210> 3488
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115f06b1

<400> 3488

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ggacgaggtg ccgggccgca acgggctgac ccacgtggaa gaccaggcca atcggtacag 180

ccgcggctgc gaggcctcca aggagtgcag aggctaagct ctaatccagc catgctcaat 240

gaccaatttg tactccttac attcctcagt taccttgttg ctacttctgc tgttgagagg 300

aagataaaac cccgcgcgat tgctatggaa tttgtttg 338

<210> 3489
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115f09b1

<400> 3489

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aggttactgt agcaccagta ctttatccgc tggatctcca acatctagtc caagtgagga 120

aagggtttcg tcagggattt ctctgtcctg gcaggatgtc tataatattg ctgtcaagtg 180

gagacagatt tctgaacctt gtgatccagt tgtttgggtc aataagctaa gtgaagagtt 240

caattctggt tttggttctc acaccccatt gctttttggt caagcgaaaa ttggtcgc 298

<210> 3490
<211> 258
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115g02b1

<400> 3490

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ggacctcagg ggcaagatca tcatatcaac caaaccggca aaagagtacc ttgaaaccaa 120

gagtagcaag gaggaggccc aaaatggtag cgcggaggag agtgtgtggg gggacgagat 180

tcccgacaac aaggctcacg ttgatactgc tcgccaggtt tcagagaagg acaactaccg 240

ttatggggaa gaagatga 258

<210> 3491
<211> 380
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115g08b1

<400> 3491

gctaagcaca ttccgcagct gtcaagatgg atatgccgtg aaatcatcac ttaaagctga 60

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cattctgcat gaggagattg agtatgttga atttgagcgc catggtgctg gcggcgctag 180

tatgtcatct cactattttg atctcctggt caagctaaag aatgaccaag aacatctctt 240

cagaaatata caaaggaatg aataccataa cctcttcaac ttcgtcagtg gtaagaattt 300

gaaaatcctg aatcttggag aagatggcca agatagaact ggtgcccgtg cggctgctct 360

tcagagcact gatgatgacc 380

<210> 3492
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115g11b1

<400> 3492

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tccggagggg aggagagggc cgatgaggtg caagctccac ccgtacgcga acgcgctcgg 180

cgtctgcgcg ccctgcctcc gcgaccgcct cctcgtgctc gccgccgagc gcgaccgggc 240

cggggccggg gccagcagcg gcgccgactg cagcagcagc agcagccggg gcagctcgcc 300

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ccggcgctct gacgcctgcg cctacacgt 389

<210> 3493
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115h01b1

<400> 3493

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cagaaggaga aaataatgaa ccggaggttg ttccttcgat tacaccccca aacaatggag 120

tactgctgat cgcgaatgca tatcctgttg aatatggtca cattttcttg gtcccaaatg 180

caactaatca gctatcttcc ttttgggata aaaggatgtt tgggctgatt acaaagattg 240

cctctgaagt aaacagtgca gcgttccggg ttttctttga tgatggtaca tctattgtgc 300

caaagcacat gttttttcaa gcctgttact ttgccaatcc tttaccagtg gagtcttcct 360

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ataccctcta aaagcactt 439

<210> 3494
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsfl9316115h02b1

<400> 3494

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ctgacgaccg tgaaggggcg ctacaacaac ttcggcatcg caagtgcgct catccagcac 180

gcgtggaggc ccaagtctct catcaccttc tccaccgagg ttgacaccaa ggccattgag 240

aagagcccca agatcgggct ggccctgtca ctcaagccct gatgtgggat tcgtgggtgc 300

gttaggatgc tagcattttg gtaccatcag ctcttggtcc aacgaacaaa gcttggacag 360

ac 362

<210> 3495
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316115h03b1

<400> 3495

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caagaagctg cccaacgccg gcgccaagaa ggacgagagg gccgtcaacg ccgcccgccg 120

cgccggcgtc gacatcgaca tcgccaagaa gcataatgct gggacaaaca aagctgctca 180

tagcaccaca tcgctcaata caaagaggct tgatgatgat acagagaatc ttgctcatga 240

gcgtgtgccg tcagacctga agaagagcat tatgcaggct agaacggaca agaagctcac 300

acaggcacag cttgcacagc tgatcaatga gaagccacaa gtcatccagg agtacgagtc 360

aggcaaggct atcccaaacc aacagatcat cggcaagctg gaaagggctc ttggcacaaa 420

gctgccaggc aagaagtgaa gctgcgtgca tctgacagga gtcgagtctt tcagagagga 480

gcttg 485

<210> 3496
<211> 147
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316115h07b1

<400> 3496

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gctgcaactc atggacgtgt ccacagc 147

<210> 3497
<211> 259
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316115h09b1

<400> 3497

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caagaaggac tgggggggact atatggcctt ccgccgcgcc ggcgtcgaca tggacattgc 180

caagaagcat tatgctggga caaacaaagc tgtttatagc accacatcgc taactccaat 240

gtggctctat gatgataca 259

<210> 3498
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316115h11b1

<400> 3498

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acctgcatcg aatgctgaga ttggcgggtt tggagctcta gtcttctcag gcttcatcgt 120

ctacgacact gagaacttga taaagcgcca cacttacgac gagtacatct gggcgtctgt 180

tgagctttac ctcgacatcc tcaacctctt cctgaccatc ctacagatgc tcaggcagaa 240

tgacaactga tgggtcctgt ctgaaccacc aggaccttgt gccaacccag gcatatgtcc 300

aacatttatc aagtcttttg aattgctatc tacataactc ggaagacatg gtagtgagtt 360

tttgccatca tccagagatg aggccaaagt acaaccatat gtataggtgt tctactgcga 420

gtttatgtgc ctgagtgttg gtaaact 447

<210> 3499
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsf19316115h12b1

<400> 3499

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cgccgcgcgc ccgttcctcc ggggcgacct cgcggccgtc gaccccgagc tcccctcgct 180

cgtctccgtc ctcgtgtccg ccggcgccgg cgagtgctac cacaagcacg gcaccttcct 240

cgcgcacctg ctcgacgtct accgcatcct ccgcctttgg ggcgcgcccg acgccgtcgc 300

ccgttgcggc ctcttccact cctactactc caactcctac gtcaaccttg ccatcttcga 360

gcccgacg 368

<210> 3500
<211> 300
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001b09b2

<400> 3500

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gggaagatgt accctgatct gacggagcag ggcagcgccg ccgcccaggt cgccgacgtg 180

gtcgtcctcg gcgtggcgcc tgagaacaag gcggggcagt tcgaggtggc cgccgggcag 240

tccggcgagg gctgcagctg cggcgacaac tgcaagtgca acccctgcaa ctgttaagct 300

<210> 3501
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c09b2

<400> 3501

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gaggaggatg ccgatgaggc caaccgtgtg ctaatggata atctgaacaa gactgggaag 180

gcttatcttg cacacacggt ggttggtgac aagttcgttc ttcggtttgc cgttgggtcg 240

tcactgcagg aggagagaca tataagaagt gcctgggacc tcatcaaaaa gactacgagc 300

agtatcatgg attaagtgga tggacctatt gacacataaa gttccaggag ctacacaaat 360

ccctatattt agggtatgat tattctttta aaattataat ttgtttttct tttgctttga 420

ttctgattat tacttatttg ga 442

<210> 3502
<211> 73
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001c10b2

<400> 3502

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accatggatc gtg 73

<210> 3503
<211> 350
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316001f08b2

<400> 3503

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aaaaggagga tcatatgggg gagtccacaa gcgctgcaat tctcttgctt tcaccaaatg 120

gggcacctga tgccagcact tgcacttctc ccctgtttat tttccgttca gcgtcggtcg 180

aatggtggtg ttggtcttgt ctctccgaga cacttggggt gctgcctatt atgaacttct 240

gattgtattg tggcatggag ttggtcaatg tcaagaagta ttttcgtgtg atgccactta 300

atcgtagtca ttgccgggaa catcatatca aagaaattgg ctgttttgtg 350

<210> 3504
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002b11b1

<400> 3504

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aagacggtgc cgcggtttaa tcctggccgt tggatcgaat tttacaccgc ggccgattta 180

ctctaggatt ttgggtttct ttaatggtgt gctaaatttt ttctcaacaa atatattcat 240

gagaaaaaag aaacagacag gtagcattac tgtttttcgt aatttatttc gtctggtcat 300

gagcatgtga atacggaaga agagcgtgcg cggcattgca gcgtctgtac agtttgtcgt 360

ttctatttcc gagttaatga gaatcagatg cttcttacg 399

<210> 3505
<211> 71
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c07b1

<400> 3505

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tatgctttgt t 71

<210> 3506
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002c10b1

<400> 3506

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acgggtatgc aggaagtcaa gagctgggat gcttgctgtt gttttaagat gtagacattg 180

tgtagtgacg tcggaaatga ggttccactt cttatttttt gcttct 226

<210> 3507
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002d07b1

<400> 3507

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ctgatgtcta gcactgatgg aaggaacggg cctccgagca atgatcacca gtgcccactt 120

ggaacctacc ctaattgcca agggatgtcc cagaataccc aagaagcagc tcaagctgtt 180

ggaggaaact aaggcaaact gagggattat gagtatggaa tgaataccct aagtttatat 240

tgcttttact tccacgtaca gagtcatgtg gcatgagata tgtatcatgt cgtcaatgtc 300

tctgcgtagt ccggccgtag ctccctagat gctacacacc atcaagatct caggaatgta 360

cttatcctat atgctactgg tgtactggtt gaatttacgg actctcatat ctgtgtgata 420

cagt 424

<210> 3508
<211> 255
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002g05b1

<400> 3508

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gcgtgacgtg ggctaaataa aagtgttgtc ggggccagtc gacgcccagt gtcgggtcag 120

cagcgagcga gcgagcgacg cagcgccact cgccggcacc cgtgtgcctg cgtctgctca 180

gctggagctt tgttgcggtg tgtgtcacag tgtcagttcc acctatgatc gatcggtatc 240

ctatccggtt tgtgt 255

<210> 3509
<211> 53
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316002h09b1

<400> 3509

acctaccacg cgtacgccca cgcgtccgac cacgcgtacg gcaactggac ctg 53

<210> 3510
<211> 84
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003b11b1

<400> 3510

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gtaccgctgc cgtggtacca cacc 84

<210> 3511
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003c07b1

<400> 3511

tttttccgga ttggattggt ttgattcccg cgtgccatcg agtggagaca agaagaag 58

<210> 3512
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003c08b1

<400> 3512

ttcttccgga ttggattggt ttgattcccg cgtgccatcg agtggagaca agaagaag 58

<210> 3513
<211> 370
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316003c11b1

<400> 3513

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ctgggtcggg ccactcatcg gcggcggcct cgccgggctc gtctacggcg acgtgttcat 180

cgcctcctac cagccggtcg gccaccagga ctacccgtga agcgcacgga tccgaaccta 240

gcttcctggg ctcttggctc gttgctgttt ccccttgtgt gaatttccct tttcgattnt 300

aatccacctc aaaaatgtaa aaatgtaaga caaccactcg atcttacatg aacggttctg 360

gcgtttttcc 370

<210> 3514
<211> 182
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f04b1

<400> 3514

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gattgttatt cgatgtttgc ttgtggtgtg gtgaagtcaa taatatctca tcataagaaa 120

taagcacaca tgtttgctaa attttgatca tcccgtgtct gggttattct tgttccattt 180

gc 182

<210> 3515
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003f09b1

<400> 3515

ttttgttctc cttgaaatct ttttgggttc acagatttgg aggatgtctt gcaactgtgg 60

atccggttgc agctgcggct cagactgcaa gtgcgggaag atgtaccctg atctgacgga 120

gcagggcagc gccgccgccc aggtcgccgc cgtggtcgtc ctcggcgtgg cgcctgagaa 180

caaggcgggg cagttcgagg tggccgccgg gcagtccggc gagggctgca gctgcggcga 240

caactgcaag tgcaacccct gcaactgtta agct 274

<210> 3516
<211> 65
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g04b1

<400> 3516

ttttttatcc gggtcgggga cagtgcatgg tttacataag taatcgagta tactcgcttc 60

gtttg 65

<210> 3517

<211> 222
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003g12b1

<400> 3517

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catcgttatg ttcggttgtt tttgagaatt gctgctgttg tgaacagctt tggtgaactt 180

gataaataag tgagccctga attgtgtctg cagctgcgag tt 222

<210> 3518
<211> 151
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316003h12b1

<400> 3518

tatcggtgca atgaaaacat tgacggggtg cgttgctaat ggagctcctg tttgccgcca 60

ctaagttgat caatatggta actttgttga accttgtatt tctaatgtta acatgttgaa 120

gcactctgta aataacatgt tattgttcga t 151

<210> 3519
<211> 155
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004b01b1

<400> 3519

tctcacgcgt ccgcccacgc gtccggtttg cattggcttg aattggttgc tttggaggct 60

taggttagct gcagactgta cataaggaaa ttgtttatgt tggttctttt ctccagttct 120

ttacatgaga tccatgtcgg caacagtgga tacag 155

<210> 3520
<211> 172
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004c02b1

<400> 3520

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tagcttgtat tcaggtatac aagcagtggg ttttcctggt gaacatcgaa cccacaacct 120

acctactatt ttcaataaaa atcatataag aatttgccgt ggggcaactt gc 172

<210> 3521
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004c11b1

<400> 3521

tgcttgtggt gctggagtat tacatatctt gtccaaaaaa tttgtactat gactccatat 60

atgaggccct cggttgcagg ctagctagat ggtggcttgt ggcgttgtag tattacatat 120

atctgtccaa aaaaatgtac tactgagatt ggagcagtaa ccagagattt catctcatct 180

<210> 3522
<211> 342
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004h03b1

<400> 3522

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gacatgccca tcagctgcct ggtcattggg agcaggggcc ttggcaagct caagagggtg 120

ctcttgggca gcgtcagcga ttacgtcgtg aacaacgccg actgcccggt caccgttgtc 180

aagccagcga gtaaccatgc ctgatctcat cgtcgcaaat gtctacattt gtttcagttt 240

gctggagtcc tatatatcca ggtggccgca acttattgaa ccatccagtg ttatttgtaa 300

taataattga caattagcct gtggatgatt cccaggttgt gt 342

<210> 3523
<211> 163
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316004h08b1

<400> 3523

ggagagaatg gccgcagcgg ctgggggga ggatttgttg cggggctcgc ggcttccacc 60

agcggcgggc tcccagtgag gatcaagccc gcttcgacgt cgggtgcaga ccttaaataa 120

ttactagtga taaattggga tgcgctaaca atgtacataa gta 163

<210> 3524
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006b06b1

<400> 3524

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ttttgatcca gctcagcagt agttttctgt ctgtgggcaa gttgagaatg cggcctagtg 120

tgttcttgtg aagatgtttc tgcctgtcgc tggtaattat agaaaaatag tgtgtacagc 180

agtaaatgct tcgtagccgt gttaatcctt tctgtagcgg acgactctag actctagtgt 240

aaggtgatac ttagatgtgt gaacacctga cttaatgttc tgtgctcc 288

<210> 3525
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006c01b1

<400> 3525

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gcaacggcgc agtggagact ttggtgaaga cctctcacca agttatctgc aaggccaata 120

gtaagttgga taacaatgcc aatggcaaca gcaatggaag tggcactggc agtagcagag 180

cttgggaagg gtgggtggag acagtctcta gcacattggc agtgccaagt aacaggaatt 240

ttgtgcttga tgttactggg agggtgacat 270

<210> 3526
<211> 370
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006e11b1

<400> 3526

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ggagccgcgc tgtccatggt ttacatatct ggatctccgg tcatgtttgt tggatgcggc 120

cagtcctaca ctgacctgaa gaagctgaac gtgaaatcca ttgtgaagac cctactgaag 180

taaaatggta gtgctagtac atgtcgagct ccgatatgtg ccacatacca aaagtctgct 240

atatctccaa atatccccag tgacctcgtt gttttctcgt ttggtgtgaa actgtcgtcc 300

ctagcaaact tttctggttg ctgataactt attctgttat gtggatcgtt atgcttggtt 360

gcctcatcag 370

<210> 3527
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006f07b1

<400> 3527

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ctggaccgag gggctcttcc tcagtagcaa tgtacccggc cctgtattct tatcttctgt 120

tgcagtttgt ttctctttct tgagagctgt tacttggcca aaaaaaaaaa aaaaatacaa 180

tagat 185

<210> 3528
<211> 223
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316006f11b1

<400> 3528

ttcgatatat ctcaagcaaa gatgatctag ttttaagggc gacactggac tcaattacta 60

gaattggata aaattgcaat ccggtgatga aaaggaacat gaaattaccg gcaattgcac 120

aaatatcacc ttgtccactt attgtttgta agagaatgca gctgtgccgc ttgccgtcta 180

taattttgtc aaaaaaaaaa aaaaaaaaaa aaaatattac ttt 223

<210> 3529
<211> 100
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316007f10b1

<400> 3529

tcgtctgcaa gttgtccttc accatggttt gtatgtgcca ccagtatggc agtatggttt 60

atccaggtta ttgtgcacta aataaatgta ctttaagctt 100

<210> 3530
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008b04b1

<400> 3530

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gagggctggc ttgatttgtg cgtgatgggt cgtgtgaaga atatgcgtgc gtgcacgcat 120

gtgcgtctca atgtttcgtt cggccaatga gccgtggaag taacaacatt gtttctttca 180

ccgtaagttt gtaagtgtat aaggcctccc cgtgcatgga aatatacgtg gaatatacat 240

acctgttatt act 253

<210> 3531
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008b09b1

<400> 3531

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ccgctcctat agtggtatca tcggaatcgc cagaagaaga gaaaagagaa gctgtggcaa 120

gacaaaggta gtgtcgccag gccgccatac ccagtggcgg tggcctggtg cggttgtgtc 180

gcgtctgttt tcggtcggta tttggtggtg tttcgagtaa gtactatgtg tttgtgtcga 240

gtgctgggtg agtggattat aagtgggttc tagattggag ctgttttcgc gtcttattaa 300

gattatatta caacag 316

<210> 3532
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008e02b1

<400> 3532

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gggaccacac agtctccgcc actcacggag acatggacca gaacactagg gacatcatca 180

tgagggagtt cagatcaggt tcttcacgtg tgctcatcac cactgacctg cttgctcgtg 240

gtattgatgt ccagcaagtg tccctggtca tcaactatga cctcccgacc cagccagaga 300

actacctgca tcgcatcggt cgtagtggtc 330

<210> 3533
<211> 143
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008f11b1

<400> 3533

cccacgcgtc cgcggacgcg tgggggggaaa aataaaaaaa aaaaagggaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaagggg ggg 143

<210> 3534
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316008g09b1

<400> 3534

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ggtgcagggg ggtctggcct aggaatgtct ggaattcctc cgtctacgca aggcggtggc 180

atcgagagct tggcaaacta caacaagtat cagtttggtg gcttcaaatg agctccatag 240

gagaacattt ctagcacctg gtgtttgttg ctttttgct ggactgcgcc tttgggctct 300

tattatcttt ttattggttt tgtcatctcg ctgttgttga ctgtcacatt gcttataatt 360

gctgcagtat tcaagt 376

<210> 3535
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010c11b1

<400> 3535

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gccatgctgc tgtcgcgcac gcggcctact tccgaccgga tctcgagccc tccggtgaga 180

atagacttga cggcgtcgga gatggaagcg gcgccactcg atgcgcgcgg agggcgaccg 240

ccgccgtgct t 251

<210> 3536
<211> 113
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010d05b1

<400> 3536

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggcg ttt 113

<210> 3537
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010e05b1

<400> 3537

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ttctcttcca aaaatcttga cgttgagttg accggcgatg ctgagaaccc tatgatcgtc 120

atcggtcagg ctatcagtgt tgcggcatac gtcaagaact ttgacctcat cttccttgat 180

aagtcacatc aggggactcc aaaaaaaatc ttcaagctca cgcatgaagt atctggcact 240

agagaagaag tgctgggtgt gatgcacgag tcggttcacg taggcctttt ccggatccag 300

gaaaaaaagt caaaactctt tcttgcaggc tacaatttca aagaccctga aaacaggaaa 360

ggacgttttc cggtcttcgc gcgggagatg agc 393

<210> 3538
<211> 115
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010e11b1

<400> 3538

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ctagacttgt ttgtcaaatg tgcggaccat tttagtatat ttctatatca gcact 115

<210> 3539
<211> 61
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010g12b1

<400> 3539

ttcttaaaaa aaaaaaaaaa aaaaaaaaaa agggggaatt ttaaaaaaaa aaaccgaaaa 60

g 61

<210> 3540
<211> 189
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316010h04b1

<400> 3540

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caatttttcct tataaattgg tcaattctct tcttcttaat gcaaaggcag agctcctgct 180

gttttctcg 189

<210> 3541
<211> 241
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316010h11b1

<400> 3541

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gccatggctg ctcgtgcgag cgctttgaat tagtacggtg ctttgacgat ctgtttgaag 180

catgaatggt actgtatttt gctagattgc ggtgatgggt gctttggatt gaacttgttt 240

t 241

<210> 3542
<211> 268
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014a04b1

<400> 3542

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agcttggcaa gcctattgag gagaccaagg aagatgtgta cccgaggacc cacaagtcgc 180

ctgccaagat acgcataatt ttgaaatctt tcaataacca gaagaacaat ctgaaggagc 240

ttgcgccata catgcataag gtcgggct 268

<210> 3543
<211> 69
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014c12b1

<400> 3543

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actaatagg 69

<210> 3544
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014d02b1

<400> 3544

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tcggcatggc ggcgccggag ctgggcaggt tcggcccggg cttcgacctg tcagcggcgg 120

actacgccgg cgccatgcag cagccgccgc cgcagaagca cgttggaccc aactggttct 180

actgaacaac caaggaggaa ccacccatga ttagcatgta gctctaggcc attagaattc 240

ataaggcttc cattctcgat cagtccatgg cgtcttgcaa cctgtaagga tcggtcaaat 300

tcaggccatg ttgagaacac tggaattttt tcacaaatca caccgaaatc gaagttcttc 360

tttc 364

<210> 3545
<211> 196
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316014h10b1

<400> 3545

ttttggacgc gtgggaaaat gttgatttct ttgattcgat ctatgtatgc ttccctagac 60

cagttgggga cacaaacctt gttcttcttt ccctatgttc cctacgagtt ctttgtcgaa 120

ctcataggca aaggcatcga tcgatggatt agttagctta aaaaaaaaga acaaatacaa 180

tagatagaag aacaag 196

<210> 3546
<211> 115

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316019a08b1

<400> 3546

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ctcttctggt ccttgctacc tatatatttg ctaaataagc aaacatacta ttctt 115

<210> 3547
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316019a09b1

<400> 3547

taaaataata attattgtaa gaatgtaact tggagcaata gatattaaat gttacaatgg 60

tgtttctcac ggttcctttt ccaacatt 88

<210> 3548
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316019d12b1

<400> 3548

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gatttggagg atgtcttgca actgcggatc aggctgcagc tgcggctcag actgcaagtg 120

cgggaagatg taccctgatc tgacggagca gggcagcgcc gccgccgagg tcgccgccgt 180

ggtcgtcctc ggcgtggcgc ctgagaacaa ggcgggacag ctcgaggtgg ccgccgggca 240

gtccggcgag ggctgcagct gcggcgacaa ctgcaagtgc aacccctgca actgttaagc 300

t 301

<210> 3549
<211> 99
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316019e02b1

<400> 3549

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cgcgaggaag aaacaacatg tgttatcttt cagtcggtc 99

<210> 3550
<211> 327
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316019e10b1

<400> 3550

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aatacacgca gcaatgtatg atacaaaaga atattaagca acggagtaac gcccacgccc 120

cactcagacg aacacaacac aacacaaccc atcactactc gttactactg ctccccctaa 180

actcagaagc gaagtgaccg tcgccgccgg acgagcgacg acgcaccgcc accgccgcca 240

ccaccaccac cagctcaccg cctactgtgc gacgagcagg gacagcacgg cggagcaggc 300

cacggccagc gccgacgcgg cggcccc 327

<210> 3551
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316019e11b1

<400> 3551

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atctgttggg aatctacccg cctatgggtt tcctaggaat acagacagac caggtgaatg 120

ccatggatct ttgtttgcgc tgatgcagtt taactggaat agtgggcttt c 171

<210> 3552
<211> 322
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316019f12b1

<400> 3552

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aaagctggat atgacaaact cgaattgagg gttctatgat ggccgttcca acatccagac 120

ataggatctt tcaaagttgc gtttacaggg ttcggtagca ttcaaactgg ggtgtgttta 180

tgtcaagcct tcgccaggat tcagtagctc tgaatgtgta ggaaatccca gcagctggaa 240

tgacttgctc acctggcctt gcagaacaca taaaaatgta aaaattgtgt taataaaaaa 300

aaaaaaacaa aataataaac ag 322

<210> 3553
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316023e09b1

<400> 3553

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gagtgcttga gaaccatgag gagggcaggc gctacgccga gcacggtctc agagcctatg 120

tgcaggacaa gacccccgag atcatgccag gaatcaacaa gttcttcacc agcccgaaat 180

gaagcacttt agtctctctg tgactcgcta ttagcaactg ttgtggtcaa gtgcaaacct 240

atttcaagca ttcagtaatg ttgtcgcgtc cataattcag aggatatcat aaagtacctc 300

ttattgaaag aaccatgtga tgtttgatgg ctcgctatat atgtgatggc tgatggcttc 360

<210> 3554
<211> 82
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316023e10b1

<400> 3554

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atgtgagttc tcttgtccac gc 82

<210> 3555
<211> 78
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316023g05b1

<400> 3555

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gttctatttt ctctagca 78

<210> 3556
<211> 209
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316024c03b1

<400> 3556

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tgattcagaa agagatataa cctagcagaa gtgcaacgga agttgttgta ctcggacatc 120

aaaaaggaag atattattgc gttgcgcgtg ttgctaaatt tgtatcgacg agcgtacaaa 180

taatggaaca tatcaaagat tttttgttt 209

<210> 3557
<211> 122
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316024c04b1

<400> 3557

gcctgatttt gacagtatga tgtctgcccc ctaccattat attgattcag aaagagatat 60

aacctagcag aagtgcaacg gaagttgttg tactcggaca tcaaaaagga agatattatt 120

gc 122

<210> 3558
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316024c07b1

<400> 3558

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ggcatactcg tttaacttat gtctgtactc agatattgtt gcttccgctg actcgtctat 120

gaccgagcac ttgtattcga gccctcgagg cccctggctt gtattatgat gcttgtatga 180

cttatttaaa aaaaaaaaaa aaaataaaaa aaaaaaaaca aaaaaaaata aaaaacaact 240

aatg 244

<210> 3559
<211> 122
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316024f12b1

<400> 3559

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gcccaggcgg tgccctcgtc gacatgacca cctccgaccc cacactcgcc ggcgagatag 120

cc 122

<210> 3560
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316029e07b1

<400> 3560

tttgtaccac gccatcacca tcgtcggcta ctgcgagggt cctggcgagg gaaacaagta 60

ctggattgcc aagaactcat ggagcaacga ctggggtgaa caaggatatg tctacctcgc 120

aaaggacgtg ccctcgtcca cgggcacatg tggcctcgcc acctcgccct tctaccccac 180

ggcttgacca caggcagcac tatgtgtgat atctaaggaa ttgcttccgt ttcgttgtga 240

taatgctaaa ttactatttt tgttatactt ccctttaatt tgatcaataa tcggtagacc 300

gtgcgtgcga tagcatggcc tgagtgtaat aaatcgtcgt gtgaattaca ctttctacaa 360

gttaattgta catttgtgac acatatttac cgatttaacg g 401

<210> 3561
<211> 173
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316029f11b1

<400> 3561

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ccttcttcac ctggctcgcc tccaccggcg ggccggcggc gggaaccacc tccaggtcga 120

gccgcgccgc cctgccgctg ccgccgccgc tcctgctggg cggcgtggcg aag 173

<210> 3562
<211> 88
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316029g11b1

<400> 3562

tttcctcacg cgtccgcgtc agtactgaaa taaggaattg ccatgtaaac tttatacata 60

gtacacatat agttgcttct ttagtttc 88

<210> 3563
<211> 189
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316029h10b1

<400> 3563

tttgttgctg cggtggtaag caactatatg tggaaacata ccatgtcttg ctcatccaga 60

aggttttctg ccttaaacct gttcgtcaac tcagccccgc tcaaatcagc attttgaagc 120

gcaatctggg tagaacaagg agcaataaaa tatcagtgcc aaaataaaaa atcaaagaaa 180

aacaatttg 189

<210> 3564
<211> 290
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030a09b1

<400> 3564

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ttgatattct tgtactgcta gtcatgttct ttgccaccga gaaatttgat cggtggctgt 180

gttggtctct tgacattgta tttcgcaagc aagataggcc ttttccctcg ccttcaatgc 240

tgataaataa actggagccc caccttttcca aataaaaaaa aaaataatgt 290

<210> 3565
<211> 277
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030d01b1

<400> 3565

tttcagtgca ggcccctgtc gaaaaccgtg agattcaatg tcctgaaggt cgttccagct 60

ggaaccaccg gaggcgggaa gaaggctttc gtcgctgcct aagcccagac tctgattcat 120

gagtagttca tagtcagaac tttttcgcac ttgaaatcta ccaggctgct gtttcgagat 180

ttgattccgt gttatctgtc aaaccgaatg tcgtgatctg aacatgtttt gtggaatcta 240

tctatcatta atagtttcgc tttaattgta ctgcctt 277

<210> 3566
<211> 107
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030d04b1

<400> 3566

tcacgcgtcc gttttattaa tggcgcatca ctggtgcgcc attagtatag gccacggtgc 60

accattagta taggccactg gtgcgccatt agtataggcc acggtgc 107

<210> 3567
<211> 175
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030d11b1

<400> 3567

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ctccttcttc acctggctcg cctccaccgg cgggccggcg gcgggaacca cctccaggtc 120

gagccgcgcc gccctgccgc tgccgccgcc gctcctgctg ggcggcgtgg cgaag 175

<210> 3568
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030h11b1

<400> 3568

tggacaaaat caaatggcag acaaggacga agacttgtcc aacatagctg aagaaattcg 60

actcctaggc cttcaatggg agaacatccg tcaaactatc cctatcaaca atccttcact 120

tgacagatcc aataccatca attcacaacc tcctgtattc tctttaccac cattctccca 180

acaacttacc catgacctgt ctactgaaac cagcgaccaa gaagactcct tggccaggaa 240

atccatgaat tctgttgctt cctcgagcgc ttcgtccaca gatgagaaaa attaaacaga 300

gtatttttag agggtagcga gagcaaaaag aaataatgtt attgaaaaag aaatttaata 360

ttac 364

<210> 3569
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031g12b1

<400> 3569

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acccaaaagg gtatgaacaa ttacaaaatg cgggaacgga agggacgacg gagcagaagc 120

gcgggatacg agaaggaacg aattggcagc ccggactgat tgttggagta aacgtaccta 180

ttgcaagtct gacgcggtgg acggcgagcc gtccgggagc ctggttagac gacgcggttg 240

cgctgtattg tcgatgcgat attgcaactt gtattgtgtt gttgtggtgt tttgcagagc 300

gctg 304

<210> 3570

<211> 86
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031h11b1

<400> 3570

aactgatcga ggcggccgcc gggcagtccg gcgagggctg tttctgcggc gacaactgca 60

agtgcaaccc ctgcaactgt taagct 86

<210> 3571
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032a09b1

<400> 3571

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tattatgatc gggtaggatg aggatgagat taggttccag ctgaagaatg agaggtggaa 120

gactggtacc atttgtatag cttgtgtgat aaaaagacta agacattttg ggtgtacact 180

cctccgtgtt ggtgttgcca cccgtgaaca taaacactgc ctgtatgtta tatgttacac 240

tttgtgttca gaggtttggg ttttgtacct ggaagaatgc ttttgttgaa cgaacggtgt 300

atttgtatct gt 312

<210> 3572
<211> 164
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032b12b1

<400> 3572

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taagctgttg aacatctaag tgcgtagttt tcgtgcggct gtggtgcatg ttgatgtatg 120

catcttttg tgtccaaatg gaagaatatg cgggtacaag gcat 164

<210> 3573
<211> 334
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032c01b1

<400> 3573

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attatcattc attcatcaaa caatggcagc actccacttt ttttgctatg taaagaagat 120

gcaactggtg tccacccctt tctcatgaag attgtgttct atatctatct atatgtatat 180

tctttgttct tcaagtccat atgtaatcga tttaacgacc acttgcagta tcgtcaggac 240

atagttacag tttgttgtgt atttattcta aactggcaga ataatggttg tccagagctt 300

gtgcagttat gcccaattga gatttttttt tatc 334

<210> 3574
<211> 144
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032d11b1

<400> 3574

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tctaatcttc aaatttgtaa taatagtgtt ccccacttgt atgaagtatg agccctttt 120

aatgtcacta aactgagttg caat 144

<210> 3575
<211> 56
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032f03b1

<400> 3575

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 56

<210> 3576
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032g12b1

<400> 3576

tttctgacgc gtgggcggac gcgtgggtgc gatggtcctc gcggatgctg acgcaatgtg 60

atttccgccc agtac 75

<210> 3577
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032h09b1

<400> 3577

tgacaagtgc taatcgcact gtatgctaaa atctatgcgg tcgtcagtat ttttgctctg 60

ctctatggtt gtcagtcgac tctccaatgt tgtgtcggta actatcagat gttgagtgtc 120

ttgaaaactt tctgataatt gcgggatttg ctttgtaatg gtaatcgtga aattggtgtg 180

gtt 183

<210> 3578
<211> 107
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033b02b1

<400> 3578

ttctagctct ctcctagcac cagagtcatc tttgctagtt cattgctgca gcatccgtcg 60

aggaagcaaa tggcggttac tctgaagctc aggatcctcg ccgtggc 107

<210> 3579
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033c05b1

<400> 3579

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ctgctggtgg tggcgaaata atcgggacct gatttgtact gtgtgccatt agtgagagtt 180

gtgattagtt gcggtggctg ttttgtacgt tgatgatgtc gatatggcat ctccatttgt 240

ggtgg 245

<210> 3580
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033d06b1

<400> 3580

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cggccaacaa cgtgcacggg tggcatcgct cacacgtcaa ctaaacctgc ccagccaaca 120

acatgtcact gctaactaac ctgtaataaa gtacagtaca gagtgagcga gctgcagaca 180

gacgtaaatc aaggttcaga acaaggcctg aacgaaccaa catgcagaga gcgagcagct 240

ctgcagacgg atgtcgattt aggttcagaa taagacctga atgtaaggtg tttcgtt 297

<210> 3581
<211> 219
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033e05b1

<400> 3581

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cacttgttgg atgtgcagac gtgtatttgc tcttgtgagt atgtgactgg atgatttctg 180

gatttaatca gttaattgag agatttattg atttttttc 219

<210> 3582
<211> 142
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033e07b1

<400> 3582

ttgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggaaaaaaaa aaaaaaaaaa 120

aaaaaggggg cggccgtttt aa 142

<210> 3583
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f06b1

<400> 3583

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tactcacttt gagacgactg tgacagatgt tcttaatatg tacacactga ttactggaaa 120

gactgttgat cttagcgttg atctcagtgc tgccagcgct gcagaagagt actagatctc 180

aaacccagaa ttttcttcaa gacatacttc ctggaggacg aggaacacca ccggaatcct 240

actgtgtgat ggtcacgtgt gacatcagct gcgtactgcg tagggttcca ggtccacgcc 300

tgctaccagc actatgcgaa attattatct ttggaatggt gctgggttcc ttcgttaact 360

tccatattga tccactgggt tgtaaacgtt attctatcat aacgatggct ttgacatgtt 420

aatgttccgc ttgtcgatgt attctacagt tat 453

<210> 3584
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033f07b1

<400> 3584

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acaggaaggg agcggccaat gctgtcaggg gtggggaatt catgtacatc tgatatctga 180

aggggaatca ctgtttctgc tagcgagcaa atcgtaatgt gaccaatctt cttatctgct 240

cggtcgtcat gcctgaaatt aagcatgtct tgtgttgttc ccagattcac cgcgtcccta 300

gtttgtcacc agctttatca accccaagtc attagaattt agaaagcttg ccatagttca 360

catcacatat gaaatggata ctcttgggga gcggcaatgc ataact 406

<210> 3585
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033g09b1

<400> 3585

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gtatgaaagt gtcatgtcgt cattcctact ggtctatttt atgcctaaga catgcaaagt 120

tgtggatcgt ctgtaagcta ccatgtgcta tcgtatctcc tatgcctatg atatttgcta 180

gtaaacctat cgtgcaacgt gctttctatg tccgtacatt gttaggtggc ttcttattgt 240

gtgcatacaa atgaacctta tttctgaatg attcttcatt agtttttta tttttatcat 300

ggttgacata agaatgagtg c 321

<210> 3586
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033g10b1

<400> 3586

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gtggatcgtc tgtaagctac catgtgctat cgtatctcct atgcctatga tatttgctag 180

taaacctatc gtgcaacgtg ctttctatgt ccgtacattg ttaggtggct tcttattgtg 240

tgcatacaaa tgaaccttat ttctgaatga ttcttcatta gtttttttat ttttatcatg 300

gttgacataa gaatgagtgc 320

<210> 3587
<211> 276
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033h05b1

<400> 3587

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gagcggcgcc aagaagatgg aagccgacgc tgcgttgtca gtgcactcct gagctgcatc 120

tcgccattgt caagttatta taggatttgt gttctgttcc gtacaacaat tcttttcaac 180

agtcgatacc accatgtcga agtagccaat tcatccttgt aatatgatgc tagcttatat 240

ataaacaatg aagtgtatct ttggcgtcac ttcacg 276

<210> 3588
<211> 81
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034b03b1

<400> 3588

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ataaagttac atttttgctg t 81

<210> 3589
<211> 333
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e03b1

<400> 3589

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aactgcatcg ccggacgccc cgaccagcgg cctggcgagc agtgcatcga gttcctccac 120

cggccgccgg cacagtgtgc tgcgcacggg caatcgtcgc caccgccgat gtacgcgcct 180

ccaccgccga tgtactgata cgtggcagac ggcaatactg caatttgtaa ctgtttgctg 240

cctttgtgcc gtgagaaagg gtaaaaatgc acacatttgg tatatactgt aatctttatt 300

tttcggaaac aaatgaaata acaatggatt ggt 333

<210> 3590
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034e04b1

<400> 3590

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ctgcatcgcc ggacgccccg accagcggcc tggcgagcag tgcatcgagt tcctccaccg 120

gccgccggca cagtgtgctg cgcacgggca atcgtcgcca ccgccgatgt acgcgcctcc 180

accgccgatg tactgatacg tggcagacgg caatactgca atttgtaact gtttgctgcc 240

tttgtgccgt gagaaagggt aaaaatgcac acatttggta tatactggaa tctttatttt 300

tcggaaacaa atgaaataac aatggattgg t 331

<210> 3591
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034f08b1

<400> 3591

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tctgtgcccg ttttcccccc taaggctcac gcgtagcacg ctcactcaca gatcatcagt 180

ttcctgtaaa tgtaattata tgtaattttt ggcctcttcc ctaacctatc attttttttt 240

cttgctttac ttaattatag agtggggaat ctgatgggtg caaaacagta ctgtcggaca 300

attgattcat aattatattg tggttgtaag atattatcta tagtaataaa gttaatagtt 360

gtttccctc 369

<210> 3592
<211> 140
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034f10b1

<400> 3592

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ggggtgttct cttggggttt atttggataa taagattaca aagaactagt tcttgttaaa 120

ttcaatttct aactgaatct 140

<210> 3593
<211> 209
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316034g06b1

<400> 3593

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tgtactatat tgagatggag tgacacgctt acaagtctgt accatgtaat gcatgtaaat 120

gcccgaggtt aaactgggca tttgattgga aatcgaggat aatgtaaagc tagcttatat 180

ttcattgtgt taaagtgcaa gtattgcgc 209

<210> 3594
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039c07b1

<400> 3594

tgctgtttgc ccacgcgtcc gcccacgcgt ccgaacggtg cctgcctcaa tgttcagc 58

<210> 3595
<211> 204
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f06b1

<400> 3595

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catctgagga gtggaacata atgttattga tgtaaatttt ctgtaagata attttggcac 120

atacgatcct tatctagaca aatctaataa taaataagaa aatttgacga tttcagacta 180

taaaaaaaaa aaaaaaaaaa ttag 204

<210> 3596
<211> 96
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316039f10b1

<400> 3596

tgtctgttcg tgccatggtg gatgtagtgt tcctgatctg atgtcacctc cttgctgtca 60

tcagtaactg aaatgaaaat gtttgttatc tgttct 96

<210> 3597
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041a03b1

<400> 3597

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tgccggaggc gtcttctgcg acatcctgcg gctggcgtcc tacctcggcg ccccctcata 120

gacatctgcg cctgtattgg tagattttct ggggtagacg gacggcaact tgtactcttc 180

ttgcacaata ttggacttgg tagcattttg ttctgaatgc ttgcgaggaa agcaaataag 240

gtgttttgtt ttgtttgcca gtgtgctgtt ccttgttaga gggtgtaggg atcaggtgtt 300

ttgttttgtt ttgtttgcca cccagtccca ggccatgcca caactgttac taaattatca 360

atgtaatact aaagaaggga atgccttttt ctac 394

<210> 3598
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041a07b1

<400> 3598

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tgcagcagtc gacttgtcag gtgttcaagt ggtgccagag aggattcttg aacgcaagat 120

ggtgaaacgc cacaacaagg tgcaggtcca agtgttgatt cagtggtctg gtttagcagc 180

tgaagcagcc acctgggaag actatgatgt cttgaagaac aggtttccgg acgcaccagc 240

atggg 245

<210> 3599

<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041c01b1

<400> 3599

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ctttttgggt ccacagattt ggaggatgtc ttgcaactgc ggatcaggct gcagctgcgg 120

ctcagactgc aagtgcggga agatgtaccc tgatctgacg gagcagggca gcgccgccgc 180

cgaggtcgcc gccgtggtcg tcctcggcgt ggcgcctgag aacaaggcgg gacagttcga 240

ggtggccgcc gggcagtccg gcgagggctg cagctgcggc gacaactgca agtgcaaccc 300

ctgcaactgt taagct 316

<210> 3600
<211> 346
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041d11b1

<400> 3600

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gggaaccgcc aaaccaacca cggaaaccgg aaaactctcg acccccgttc cctccgatct 120

gccaaaaccc attgttccga gtgaaccgga aaaaaattct cgcggggttc gcgatcccaa 180

ggaccaatcg atgagcgtat ccggcgagtt acgggctcgt ggtgcaggga gatcctctta 240

acgatatatt ttttttgcg ttttcaagga gttcgataag gaactcggtt acttcacgtt 300

tcaaaaccca ctatgtatga cacgcaccgt attaaataac acgtcg 346

<210> 3601
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041f11b1

<400> 3601

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agagctcgaa gggcgctgtg ctcgcaagga tcattaatgt tgttcttgta tgaacgaaac 120

atctgtttga attcggcata aagttaactc tttctttctt ggtcttgttc ccctccgcct 180

tccctccttt ggttcaagtt taagtttgat ggaataagga accagctgtc ttcctatact 240

ctgacgagtg aaatggcaag cttgaagttt 270

<210> 3602
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316041g11b1

<400> 3602

tgttttccca cgcgtccggc ggcgaaaata accatcttag ttattggttt ccatttgata 60

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tcaccaatgt agtggagaaa atgatgaagg tggttgttct gtttttgttt tctattgtca 180

cttgggaatt gctacgagag gaaccatatt actgatatat aatttgcttg ctaccgaaat 240

ttgtttttg atgctacatt tggtatacca cct 273

<210> 3603
<211> 346
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316043c01b1

<400> 3603

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attgtgaaga aggaacacat caagattcat ggtttctgag caactgccag ctccatatca 120

gagtctacat gcaaagcagc tatatattgg tggtgcagta tatttagttg tgtgctagcg 180

ctagcaggcg ttaccagctt gcgcgctctg agtatacaga aaatctagca tagcccacct 240

ctctgcgtgt atgcttgtta ccgntgtgtt gaaactttgt aaggagcacc gtctttagat 300

ggcttgttac cctctcccat caaggttgaa taatatatgc tttgtt 346

<210> 3604
<211> 73

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043e06b1

<400> 3604

tcggtgcccg ctacttcaaa gaagcaagca cacggcctcc atggactcca agatgttgcg 60

ctctccggtc atc 73

<210> 3605
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043e08b1

<400> 3605

tctgcccacg cgtccgggca agtacgagaa gaaggtgtac gtcctcccca agcacctcga 60

cgagaaggtc gcggccctcc acttgggcaa gctcggcgcc aggcttacca agctcaccaa 120

gtcccagtct gactacatta gcatcccagt tgagggacct tacaagcctg cggcctaccg 180

gtactagtgt gtccagcgcg actagcggct ggcctgagcc tgagtccgtg cagcggcacc 240

aacgggaact ctatcaacta tcctgtttcc cttctattat cttacatgct gtctcttagg 300

cggaggattt gttattatgg ttatgttttg agccgtgtga gggttgggag aggcggcgtt 360

tgcttttgcc cagaaataat ggcattatta tt 392

<210> 3606
<211> 122
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316043e11b1

<400> 3606

tttttgagca tgccttgcca cctcgccctt ctaccccacg gcttgaccac aggcagcact 60

atgtgtgata tctaaggaat tgcttccgtt tcgttgtgat aatgcaaaat tatatttttt 120

tc 122

<210> 3607
<211> 208

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a01b1

<400> 3607

tttgtcgcgt catcatcagt aagccagttt agtttcattg cgctatcttg tccttgagaa 60

attcagggta aacagtgtgt gcgagtcagt cagtcaggaa taatctcatc cttctcttat 120

cttggtgtat gtatgtacgt cctcaattat gaatgcttct attccatggt caagattgat 180

gtttgcacag aacaacaaaa cactgatg 208

<210> 3608
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046a03b1

<400> 3608

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gtgtccttat gacagtcatt gacacatcaa ccgacaccac tgctcttgcg gttgcctgct 120

atgacctctc acagttcctt cagtaccacc cttctggccg cttagtggtg gcagacctca 180

aggcgaagga ccgagtcatg aaactcatga accacgacaa tgccgaagtt aggaagaact 240

ccctgctctg tgtgcagagg ctcttcctcg gcgccaagta tgctagcttc ctgcctgatg 300

tgtaaaaaaa aaaaattata cataaaaaat aattat 336

<210> 3609
<211> 159
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046b12b1

<400> 3609

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agaagcccac tgaacaatct ttaatttcct ttctaccgaa aaaaacatgg ataaaaacat 120

gaagagaggt catggaaagt ttttaattca agtgtttgt 159

<210> 3610
<211> 139
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046d11b1

<400> 3610

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gataaacttc ttatcgttcg agttgacgcc cacctgtata tacaaccctt gattcaattg 120

catttattgc ttagatggg 139

<210> 3611
<211> 208
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046g12b1

<400> 3611

tgtttttgaa taacgagcgt ctgatctgat ggagtcgagc aagggtgcgt gtgcgtgtgc 60

gtgtggtttg cttgctcgct ctcccatgct ctgcccatgg tgtccttgtg tgtatgtgtg 120

tgtgcatgtg tccctgtaat tgcttcatct atccccacta tggatggagt gatgaatatg 180

taagaatgaa agatttacct aattaact 208

<210> 3612
<211> 298
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316046h03b1

<400> 3612

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ggaaatgaat cttcttctta gctgttgttt tgtcttatct cccccgctgc tcatagagtc 180

aggattcaag aaaagaaagg gcactgtcga ttggttgaat gatttcaatg tgtgctctcc 240

cgctctctga tgtatcccat gggaatgtgt gttaatcgac atacgcttct taattttc 298

<210> 3613
<211> 107
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047a01b1

<400> 3613

tttgtttgtt ataactgacc accaaaccaa accaatctca gttatttgga gagatactaa 60

atactagcaa gtattatact aattagttaa tgtgaagaag gtactct 107

<210> 3614
<211> 285
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047a03b1

<400> 3614

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cttctggttg ctgattaggt ttagattatg tgtagggatt attgtgcatc ttggttgccc 120

ttgctaatta atggttagat ctcgttcccc ccctccgact atcagtcagc cttggatgta 180

tcatatcgtg attccttcct ttatggtaga actggaattt cttggattca aaaaaaaaaa 240

aaaaataata attaaaaaat aaaataaaaa aaagggcgtt ctttg 285

<210> 3615
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b01b1

<400> 3615

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gatgtcaagt gtccttagga agatgaggtc tgctggtggt ggtggtgctg gtgacaagaa 180

gaaatagagc gtggctagtc ggtgaatttt atcccaaaac tctgtcctgt attaccagtc 240

cgtaccttta gagctatcta tggccatagt gttggatttt ggaattaagc ccgtggtttc 300

tattttgaga agaccaatct ttttaagata tttatgtcag attggtgcct ttgttttatt 360

gttacttgct ttgtttgatt acttgatacc cagctgttta ttcggtt 407

<210> 3616
<211> 260
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047b08b1

<400> 3616

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aaaataaagg agtgccttgt cattttccaa acaaaagtcc tgggtagatc atagaatagc 120

aaggcggtta tgccttgtta ccttttgata cccgtggaac tttcttttgg aaaaaatagt 180

atgcagatag agtgcttatc atatatgtac tgtgtacaat atcatacacc ataatatcaa 240

gtcatgtatt tgttatccga 260

<210> 3617
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047c12b1

<400> 3617

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cgccggcgaa gatgttcggc cgcgccccca agaagagcga caacaccaag tactacgagg 180

tgctcggggt gcccaagaac gccgcccagg acgacctcaa gaaggcctac cgcaaggccg 240

ccatcaagaa ccaccccgac aagggcggag accccgagaa gttcaaggag ctggcacaag 300

cctatgaggt tttgagtgac cctgagaagc gtgagatcta tgatcagtat ggcgaagatg 360

ctctcaagga aggaatgggt ggaggaggag gtggtg 396

<210> 3618
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047f01b1

<400> 3618

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agcaagagtt tgttgacatt gtggagactg tctacagagg agctcgtaag gggcgtggtc 120

tggtgattgc tcccaaggat tactccacaa aataccgtta ctgaggtatc tgtgcctggc 180

tattcatgtg aagtgtgtgg cctgctctgt tccgtgatat gcgctgtgtg acccttgatg 240

taatgtctgt caactttgaa agtgtcgtaa ctatgtattt gtatcttgaa tatcaacatg 300

tcataaacct gtaacccttt aaaacaggac ctgctgtcta ttggtattac tgct 354

<210> 3619
<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316047h06b1

<400> 3619

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gtttaggaaa accgccttca agatggggtt aaagggtgta ccaggaattc ggataagaaa 120

atgaataacc aagctacatt ttatctccca ttctgtaatt cgtcttattt ctaattttca 180

ctacatcaag tctgaaactg atcgatgact tgttgactgg ctcaaacgaa gaacgactct 240

cacatttttc ttacggcctt acactc 266

<210> 3620
<211> 126
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048b07b1

<400> 3620

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 120

gcggcc 126

<210> 3621
<211> 344

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048b08b1

<400> 3621

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caagtacccg cccaaggcct acgtctgacg atacattact acgccgccgc cgcatgactc 180

cacacgaaga ttacatgatt cttttctcct atacttttc tgcatttcgt ttcccgtagg 240

tggctgtacc ttaggttcca tgggcgagca gtgccgttgt tttcagcttt tgtactttaa 300

gtgtgaatta taaacgacaa atatatacga cgaggtttca ttcc 344

<210> 3622
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048f06b1

<400> 3622

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tgtaatgtaa ttttacataa ataaacctgg cttgctagtt actctagcgt gaagcatgaa 180

gaggattatg ccctgcttgc aagaattgtc cgtaatgatt catcat 226

<210> 3623
<211> 170
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316048f09b1

<400> 3623

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtgcgaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg gggccgtttt 170

<210> 3624
<211> 134
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056b06b1

<400> 3624

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cattgtctct actctgtagt cttcccctaa cttgatgtaa caacctatat aatcctattc 120

tgtaatcttt ccct 134

<210> 3625
<211> 300
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056e02b1

<400> 3625

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gggaagatgt accctgatct gacggagcag ggcagcgccg ccgcccaggt cgccgtcgtg 180

gtcgtcctcg gcgtggcgcc tgagaacaag gcggggcagt tcgaggtggc cgccgggcag 240

tccggcgagg gctgcagctg cggcgacaac tgcaagtgca acccctgcaa ctgttaagct 300

<210> 3626
<211> 169
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316056f09b1

<400> 3626

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aaaactgtga attcgcccgc ccgagtaatt tcaagttcag ttgagttgg 169

<210> 3627
<211> 216

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b02b1

<400> 3627

atcaagatta tggcagacat gtcatcggct aaaggagcat gttgatatga cctggtttgc 60

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agctcgtaag cattgcttgt gtataatatt tattccatca tcatttatat taccatttat 180

atcacaagca ataagccctt tgggcattca agctct 216

<210> 3628
<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057b03b1

<400> 3628

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cttcgctgca acggtctgat gtttgtgatg aatatctgaa ttggcagcat gccgtggtca 120

tattagcaca agcttgaaac cctggtctag cgcactgatt gtacggccac agaatatgct 180

gtgacaaatg agtaccatgt aaacttaaat cagtatactg taatatatta tttgcttttt 240

gggggggttgg ctgccctgcc taatgatggc gatgacactg cgcttgcaga actctcttct 300

atacataata cactagcttt actgt 325

<210> 3629
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057c04b1

<400> 3629

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cgatggcgat caagaggacc aaggccgaga agaagatcgc gtacgaccag aggctctgcc 180

agctgctcga ggagtacacc aaggtgctca ttgtcgtcgc cgacaatgtc agatccaagc 240

agcttcagga gatccgcaag ggtctacgtg gcgactccat cgtgctcatg ggcaagaaca 300

ccctcatccg ccgctgcatc aaggtgcact cggagaagac cggcaacaag gact 354

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<223> Clone ID: uC-tsro9316057e02b1

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cgtacgtgct agctcccggc cggtcgtgta gaataaacgg tggccaaagt gcatatcaat 180

gtattagcca aaaaaatgct gctaaacttc aatatgaaat aataaagtcc aaggtttaat 240

tcctgttttc ttt 253

<210> 3631
<211> 160
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e06b1

<400> 3631

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gtgtaagtcc tactgtgtgg ggttactgca ctatctgttg gttgaaaccg ttggtgacgc 120

gtccgtatca ttataagtaa tgaataagtg aacttcagat 160

<210> 3632
<211> 157
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e11b1

<400> 3632

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tcagtcctac tgcgttggtt tagtgaacta tctgttggtt gaaaccgttg ctggcacatc 120

agtatcatta taagtaatga ataagtgaac ttcagat 157

<210> 3633
<211> 125
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057e12b1

<400> 3633

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tattt 125

<210> 3634
<211> 223
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316057g09b1

<400> 3634

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tctcaaaaca tttactatca tagggttgag tttgagttcg agtatgtgcc ctgaatcgtt 180

accgggcaat tttccttaaa tacattgtcc tccaatccga ctg 223

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<211> 56
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061c10b1

<400> 3635

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<210> 3636
<211> 83
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061d05b1

<400> 3636

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gacaagagaa caagaccatg atg 83

<210> 3637
<211> 102
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061e11b1

<400> 3637

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acatgttcta tttcaccctc attaatgact ttgctatttt cc 102

<210> 3638
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061f03b1

<400> 3638

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gtccgtgcac gcgtccgcaa agccaaaggc tacgtacgtg gatgggaaga aggaacgtac 120

tatggcgaac ctgtggctgg ggagcattgt tgcgccacat gttgtgttct aattaaccgc 180

ccttcttttt gtggggatgt ataccgaacc taccgattat gcatgcatgt aaattacctt 240

tgtccacgta caaggggagg aaccatggaa taaagaaaga gcaacctgag t 291

<210> 3639
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g03b1

<400> 3639

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ttgctctgcc 70

<210> 3640
<211> 167
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316061g04b1

<400> 3640

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggccgtt ttagagg 167

<210> 3641
<211> 218
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b01b1

<400> 3641

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tatgatttta ataagttgaa taagattaat aaattatccc aataacagaa caacttcagg 120

taattaattc tacacaaaaa aaacattaaa ttaaggaaaa aaaatcaaaa taatttaata 180

aaatataaaa taagaaggaa aaaaaaaata atcttttg 218

<210> 3642
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072b11b1

<400> 3642

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gtgatgacat taataaatct gccctttgtg tttt 154

<210> 3643
<211> 202
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072c07b1

<400> 3643

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gtcgagctag gtttgcttaa tttagttggg gtattgtatt tgatctgatt gatgagatta 180

ctaagtcttc cgttgatcct ct 202

<210> 3644
<211> 114
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e04b1

<400> 3644

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gacctgtgat gaccagagaa gagtgggcat tgtgtgagac gtatttcggc ttcc 114

<210> 3645
<211> 103
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072e09b1

<400> 3645

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taatacttgc caatgaaagc gaaagggcac aaattttcat gtc 103

<210> 3646
<211> 218
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072f04b1

<400> 3646

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agtgaccatc agcgaccagt agttatgcta ccccatgata tgtgtcttta aatctttcta 120

caagggtgga gagacaccag cgtaccaaga tatttttgaa actttctgta gtatgagaac 180

tgggttttgt atgactaggt tctttgcttc gtgattct 218

<210> 3647
<211> 122
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072g04b1

<400> 3647

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ttaaagatgt tctcttgtag agaacatggg atgatgccta cagagagagc atgttggact 120

tt 122

<210> 3648
<211> 134
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316072h05b1

<400> 3648

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ggccaggatg cacgccaaga cggactcgga ggtgacgagc ctggcccccc cgtccccggc 120

gcgctccccg ccgc 134

<210> 3649
<211> 78
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316073b02b1

<400> 3649

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tcgatctggg tttttttc 78

<210> 3650
<211> 370
<212> DNA
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<223> Clone ID: uC-tsro9316073c08b1

<400> 3650

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ttccggccac tggaccctac ctccggctga accgtttcca gggttggcag gccgttaagc 180

agaaaagata actcttcccg aggccccccgc cggcgtctcc ggacttccta acgtcgccgt 240

caaccgccac atcccggctc gggaaatctt aacccgattc cctttcgggg gatgcgcgtg 300

atcgcgctat ctgccggggt taccccgtcc cttaagatcg gcttacccat gtgcaagtgc 360

cgttcacatg 370

<210> 3651
<211> 246
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a07b1

<400> 3651

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tgaaccaagc atatgcaaga tttcccctta acatgatgga acaatggagt ctcatcgtta 120

tccgtttttg ttgttagtta ctactattac tgtctagttt ggtgaactgc aacattgtat 180

atgcctattt gatggccagt gtatcagata tcacggtgta aacaccacac ttaaattcat 240

ttaccc 246

<210> 3652
<211> 190
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074a11b1

<400> 3652

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tgtggagctt aagtttgatg tgtggtgtgg gcactgttat gttaattatt atggctctga 120

ttgaaccggt tgtaaagttt gtaagtggat tttgaatttc atagtattat catatcactg 180

ccattgatac 190

<210> 3653
<211> 96
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b01b1

<400> 3653

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ggtataaaac caaaccgcaa atacttttac cgttgt 96

<210> 3654
<211> 174
<212> DNA
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<223> Clone ID: uC-tsro9316074b07b1

<400> 3654

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aggctaacgc ctaggatgct tcatgcttgg aggagtcaca aatcacaatt gctatgtgct 120

ccatttctgt agtgttcttg cttggatcgg taaataaatt tcactagcgg gttt 174

<210> 3655
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074b09b1

<400> 3655

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aaccacacaa gacagctgcg tatggttcat tatgtagttc tagatctatg tacagcatca 120

tagctcctct gtaccgtgat agagtgatgt ccttatccag accattgtac agaacggagt 180

gtggataggg gtttaggttc ttgatccgct ctccacttat gttgcttctt ttaatcatct 240

gcgctaattc tctccttgtt cgttatcatc agtgttcttg taaaaacaga gctggaaatg 300

cttattcgtg tatatcactt tgtcggtctt cgcatc 336

<210> 3656
<211> 62
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074e09b1

<400> 3656

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tt 62

<210> 3657
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074f08b1

<400> 3657

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tatgccagtg gcgcatgaca agctaacgct gttatggatg taataacacc gtgtcatagt 120

tgggcctaat cgaaaaccat ttgcttgata aaaacacact tgaaatgatt tgcgatggac 180

gaatgtatcc agagcggcat catttctagt tggtggttgt atttgtggtg cgtgttctgg 240

cacgcttcat aacttgctgc ttatagaaca cgctctgttt ctcgttcatc ttcaattgtt 300

tctccaatta aaagtatctg ttgtgatccg agtatgtaag ctctccaaat gataatagtg 360

gctctctgtt tgt 373

<210> 3658
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074g08b1

<400> 3658

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cgccgccgtg gtcgtcctcg gcgtggcgcc tgagaacaag gcgggacagt tcgaggtggc 180

cgccgggcag tccggcgagg gctgcagctg cggcgacaac tgcaagtgca acccctgcaa 240

ctgttaagct 250

<210> 3659
<211> 74
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316074h01b1

<400> 3659

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aggacggagt taat 74

<210> 3660
<211> 57
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c09b1

<400> 3660

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<210> 3661
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c11b1

<400> 3661

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ctgccgcctc cgaggtctct gtggactgga ggggcaggcc ttgcaggcct caaaggcatg 120

gaggcatgaa agctgctgtg tttgtcctag ggatccaggc gtttgagatc atggcgattg 180

cggcggtggg gaacaacctc atcacctacg tgttcaacga gatgcacttc ccgctgtcca 240

agtcggccaa catcgtcacc aacttcatcg gcaccatgtt cctcctctcc ctgctcggcg 300

gcttcctctc cgactcctac ctgggcagct tctggaccat gctcatcttc ggcttcgtcg 360

agctctccgt aagccaccgt aaaaccagca aaaaaaagga tcatttcttt tgtttttcta 420

ccaaaactat caaaggcacg ggaaaaaatt catgcaggga aaggctagtg cgtgcgactt 480

taaagtttta ctgactg 497

<210> 3662
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075c12b1

<400> 3662

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gtcctccgtg gaggtgccct ccgggagcac cgcgggggag tgcctcggcc gggtgctggc 180

ctcgttcccc aagctggacg agatccgccg ctccatggtg ctcgcgctca acgaggagta 240

cgcgcccgag tccgcccccg tcgccgacgg ggacgagctc gccatcatcc cgccgatcag 300

cggcggctga ccgaggctga aaatgaagaa aaagggagaa agaaagaaag gtcttcctct 360

ttcttcagta cttgtctttg cttcttgatc aatgggcacg ttgaatcata gtaataaagt 420

tgcgatgttc gctggc 436

<210> 3663
<211> 314
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075d02b1

<400> 3663

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gtattttctc tgacttgagt tgtacaattt tagaagtcgc tgttttaatg tgtaagggtt 180

aaagatggac cggaggtggt tattgatgta gggttcagat gatagtccaa tctgatgcgt 240

tttatttctg gctgttcttt ttaaccacat gtacaataga tcgctgggag catcattgct 300

cctgtattcc ttct 314

<210> 3664
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e03b1

<400> 3664

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aaagggatgc caggctacta gatgtttctg tgctgggcgt actgtgttgg atacttgacc 180

tgtgaccata gccagtactc tagatattag aaatgacttt ataatttcta tatatgagta 240

aactgcacaa tccgccggaa aagctttttg ggtgtgtcga atagcaacac accacattga 300

tccgttgcgt gttcttccac atcgcaagtg gagctccgag tgcattcttc ctttgtggtg 360

tctctggtgg gatgaacttg atcgacggca catttggcag cttgaacttc gtctgccaca 420

cattcttctt ct 432

<210> 3665
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075e09b1

<400> 3665

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cgggctgact gggatcgcct ttgggggtta ctactacacc atgtgggcag tgggcagtac 180

cgaccagctg caggtcacca tgaacaagtt tgaggacctg atgaagaagg a 231

<210> 3666
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316075g07b1

<400> 3666

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cgtggtcgtc ctcggcgtgg cgcctgagaa caaggcggga cagttcgagg tggccgccgg 240

gcagtccggc gagggctgca gctgcggcga caactgcaag tgcaacccct gcaactgtta 300

agct 304

<210> 3667
<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076b02b1

<400> 3667

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cgccgacgcc caggtcgtcg tcgtggtcgt gctcggcgtg gctcctgaga acaaggcggg 240

gcagttcgag gtggccgccg ggcagtccgg cgagggctgc agctgtggcg acaactgcaa 300

gtgcaacccc tgcaactgtt aagct 325

<210> 3668
<211> 213
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076c11b1

<400> 3668

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gctcccctac tcgctcgcgt gcctctccgc ccc 213

<210> 3669
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d02b1

<400> 3669

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cagaagagaa cctatcctgg ggagctcaga tgcgaagaag aagggccgaa caattgtgac 120

agtgcacctc ttacactctt atgtccacta gccatccgta gcatctaaac tgtcgatatc 180

tttgtgtagc aaaagttaga aaggttattc ttaagaagca tggttaggat cggagtacag 240

ccatggcgct gcttgagtct tgcctggtgt atgctaaacc atactaccat acatggctca 300

caggaaacat atagttcgac taggtgccag gatgtatgtt gaacccaacg gcgtcgctcc 360

tccttgaatc tttacctgat gaaatgtaaa tataatgaga cagaagtaat caaatctagt 420

tgtact 426

<210> 3670
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076d12b1

<400> 3670

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gcgccggttg cctcgagttg aaggcatgca cgggttgcat gcgcaactac acacttgtgg 120

attgtaactc tagaaacctc tttatcctag tatacgtttt ctgtgtaaca ctcgtgggtg 180

ccgcaacact ttgtgttcga ttaagaagtt tttatcaaga gttgaacatc acaataaaat 240

gaaaatctgg tgtaatggga ca 262

<210> 3671
<211> 286
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316076e09b1

<400> 3671

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gatttgtgtt ctggggagca tattcatttt tacagtggac cgatgatatg ataatacttt 120

actgcccctc ttttggttcc ttgttttgag aatattggtt ggttaaattg tgttgtagtt 180

cctgattaca gtgaggaaag aagaaaaagg gtggcatccc cttgcccccg atgttgtaat 240

gtagaaaaag aatgacttgt cagtaacaat gtgaagtatt tttttc 286

<210> 3672
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077a02b1

<400> 3672

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agccaccgtc tctaataaat atcatatgtg atttggattc ctttgtcaac cgcggcaaga 120

catatatggt gtagcaacat tatgtttatt atcgcttgtt ggagaagtct c 171

<210> 3673
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077a03b1

<400> 3673

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agccaccgtc tctaataaat atcatatgtg atttggattc ctttgtcaac cgcggcaaga 120

catatatgtt gtagcaacat tatgtttatt atcgcttgtt ggagaagtct c 171

<210> 3674
<211> 225
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077a09b1

<400> 3674

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ctgaccgctt gagattagag aatggtattt gttcaactct catgtaaatg agattagctg 120

gggacttgta gatatggtca ttgatctgaa tcggggtgat gaattatttg attctttaca 180

gtttgggtta tgaataaatc gtgaatgtgg attggtcggg tattc 225

<210> 3675
<211> 277
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<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077b05b1

<400> 3675

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gatgcttgtg tctggagtgg attatgctga gctgatgcga tgaattctat gagagagtgt 120

gtccattttt atgctcgttc gtttgaggtt ttcaagtctt attcacacac gcccatgtaa 180

tttcctttga aaattcattt gtatgttact tgtgctacga gatgcgtacc gcatgtgtac 240

agattgatcg caattggcag ttacaagatt cactccc 277

<210> 3676
<211> 99
<212> DNA
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<223> Clone ID: uC-tsro9316077f09b1

<400> 3676

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ttgctcaaga ggcaacttgg tttttgaatt attggtttc 99

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<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316077g04b1

<400> 3677

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tgttttatct gtaagtgaag tgtgtacttg aagtgctttt tattggctaa gcctaaataa 180

ttaaaaaaat aaaaagaatc ttcccaacca agcaacaaac tctattgata aaaatccatg 240

gtccaagaga aaaaacttga aagaggagct tgatg 275

<210> 3678
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a03b1

<400> 3678

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cattcctcct ttgagggtgt tcttgtaata ccttttttctg atcaacgaat ttggcagttc 180

tcctgtcaac gttcaaaaaa aaataggacg acaagcggtc tgtggcaacg gactgggcgg 240

tccg 244

<210> 3679
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a04b1

<400> 3679

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gtcgtcgtct tccccatcag gggccgcgcc tggtgcttcg cccgcccgcg ccccgtccta 180

cccgccacct ccgcctccgc ctccgccgcg ggcagcggcg ccctcccgcc gccgcccacc 240

ctcaaggacc tctggctcgg ggtctccgcc 270

<210> 3680
<211> 446

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a06b1

<400> 3680

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tcaggtggca tcccgcatgg tgtcagcgtt ctctcgatgg aggagatatg atgagaccag 180

acaagctctt gctaaggccc agctggagat gatcatctca gccaatggac tctctgaaaa 240

tgtctatgag atagctttga aaagtttggc agcttagttt cctgatgcaa agaaacaatt 300

tggctctgcc agtcggttcg acacttcacc attaccaggg cactgaaagt gtacttaact 360

gaatatattg tactactgta tttggcatat gtaaaataac aggctactgt agtggcaata 420

catttgaatt atggcattat tgtctt 446

<210> 3681
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078a09b1

<400> 3681

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ctccgccccg cccccagctg ccgctccccg tcgccggctc cggcgtcaca gcgggcggcg 180

gcggcagcgg tggcctggag atggcttcgg acgacgagcg gtcagtggca gcggactcgt 240

ggtccgtgcg gagcgagtac gggagcacgc tagacgatga ccagcgctac gccgacgctg 300

ccgatgtgct cgccgcggc 319

<210> 3682
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078b11b1

<400> 3682

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tgcatatctc gatggagtgc gagaacgggc acgttgccgc caacggcgat ggcctgtgcg 180

tggcacagcc ggcgcgggcc gacccgctca actgggggaa ggccgcggag gagctgtccg 240

gaagccactt ggatgcggtg aagcggatgg tcgaggagta ccgtaagccg gtggtgacca 300

tggagggcgc cagcctgacc attgccatgg tcgccgcggt ggctgccggc agcgacacca 360

gggtggagct cgacgagtcc gctc 384

<210> 3683
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078c08b1

<400> 3683

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ccaaagatga gttttctggt gctgatatca aagccatttg tactgaagct ggattgcttg 120

ccttaagaga gcgcaggatg aaggtgacac atgctgactt caagaaggcc aaagagaagg 180

taatgttcaa gaagaaggaa ggtgtaccgg aggggctgta catgtgagac tgttcacccc 240

tctcgccgcc agcattacct cctggttcac atggttgtgt aatactggag gattggagtt 300

tgtgttttgt ttaaaatggt tggagtttta ctttcctgta cttacggttt attcagcaat 360

ccccaactta aaacagccct ccaagcaatg tactgcgacc acttg 405

<210> 3684
<211> 54
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078c10b1

<400> 3684

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<210> 3685
<211> 67

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d01b1

<400> 3685

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gtgatcc 67

<210> 3686
<211> 191
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078d12b1

<400> 3686

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ccacagttag cgagtatttg gatacactgg tttagaatgt tggtgatctg tatgttgctc 120

ataagtacca acctttttgtt tcaattgaca ttttgaatga cgatgagagt gatgaatgtg 180

ttccaagttc t 191

<210> 3687
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078f05b1

<400> 3687

tcctcgcgtc cggcttgaac tctgcccgtt gtataatatc acaattgtgt t 51

<210> 3688
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078g06b1

<400> 3688

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attctgaatt cttagagctt 200

<210> 3689
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316078h06b1

<400> 3689

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tcaggatata atccagggac cataaacatt gataactggg aacttgtatc gttgctggac 120

caaatatttg tcgccctttt gcgcatttgg ttgtatggta tgggtcacca ccacatggtt 180

ctcgtt 186

<210> 3690
<211> 103
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079a02b1

<400> 3690

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ttcgcccgcc ccgcccgagt aatttcaagt tcagttgagt ttg 103

<210> 3691
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079b04b1

<400> 3691

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ggcagagtga agcagtagtt tcaaaactga agatctatca cagtcgcgga caacaaatat 180

cagaagctga actttgaagc ttttatgtaa actgaaattt tctgtatggg agggcaagca 240

atgcttgcca tgatgaaagt ttaacttccc cgcagtagag cattgtatta tgttcgagat 300

cgataagaac gaacgatcga aagagttgta aagtgaatca agtcgtcttt attgatagtg 360

atggatcctt at 372

<210> 3692
<211> 163
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c07b1

<400> 3692

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tccgcctccc acgcgtctcc gtcgcctcct acgcctccca cgc 163

<210> 3693
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079c11b1

<400> 3693

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tgtgaagtcg tactgtgtct gctgctttaa tggaccatcg agtcctgtgg tttggtgcaa 180

acagttgcag gtacatctgt accgttaagt atgaataagt caactttgaa gt 232

<210> 3694
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f05b1

<400> 3694

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gccaagtttt cttgcgttaa atcttcacaa ataagagaaa agttaacatg ggatgttacg 180

ttatcttgat ttcagtacca tgactactca agtgttgaat ttgtacaact gattgctgag 240

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taaaaaccat actggtcata ctt 323

<210> 3695
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f09b1

<400> 3695

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ggaaaaataa tactcctacc actactgctc catgtacgta tgtatatcgt gttattcatt 180

gtacttgctt gcaaaggagg atcaatatat atatatatat attattact 229

<210> 3696
<211> 380
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f12b1

<400> 3696

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ataaccaggg gttgatcaac cacgtcggca acggcacgcc caaacggccc gggccgttgg 180

agacgtacat tttcgccatg ttcaacgaga acctgaagga cggggagaag agcgagaagc 240

attttgggct gttcaatccg gacacctcgc cggcctattc cattactttc tgagtgcgac 300

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gtcaactact cgtgtgtctt 380

<210> 3697
<211> 228

<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 3697

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tgttgcattc gaaaaatctg acctcgatgt atctaaatag gtagttaccg caaagaactt 120

ctatctccgg agtgtaattc attttgagtg ttattttcgg tggcaggata tttgtgaaaa 180

tttatatttt ataagtctat ttatatttaa taaatgtttt acatgtnt 228

<210> 3698
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079h06b1

<400> 3698

aaaaaaaaaa aaaaaaaaaa aaaaaaagaa gaaaaaaaaa aaaaaaaaaa caagg 55

<210> 3699
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079h12b1

<400> 3699

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catagagctc cttcgagttc gaaggggtca tgggagtagt ttgctcttct ccttttttctt 180

gatcggaggc ctctcataag taactcactg tttgctgtgt agctatggca ttgctgcatt 240

tcttgtaatt tacattctgg tgattgggca gtgccgtgga atcataatgg tcttttt 297

<210> 3700
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080c01b1

<400> 3700

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atagtgaaat ccttcggctc agggactgtc ggttaaaaac cacatcggcc tgagcaccct 180

ccgcaatcaa tcgtcatgcg cgctttccac cttaactggc aacctatctt tacctccgtt 240

gtgtatcact acatgtatgt tggacaagaa ctagtttgat actcgaggaa gaatatatat 300

ggctgttatt gattactaca 320

<210> 3701
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086a03b2

<400> 3701

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<210> 3702
<211> 139
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086a09b2

<400> 3702

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaggggg gggcctttt 139

<210> 3703
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086b02b2

<400> 3703

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ctgcgttttt cc 72

<210> 3704
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086b05b2

<400> 3704

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acgatgacta gttggtaagc ttgatgtact agcgaatggg tgcagtagcg tctgttgctt 120

gattcaacaa ccgtcagaac ctgacaaact atttgattgg tcttgggttg tatatgatct 180

ggatattatt tggtggggtt tttcattgat aactgttgga tgcgtcactt ctacccctga 240

aactctctgc gaaacctttg agttgtggtc gatttatcaa gttctatcag ataatgttag 300

tgctgtag 308

<210> 3705
<211> 57
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086b12b2

<400> 3705

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<210> 3706
<211> 96
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086d04b2

<400> 3706

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ggcgtcgacg acgttccggc gcttcggcgt ggcggc 96

<210> 3707

<211> 132
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086e07b2

<400> 3707

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ccttgtcgag gt 132

<210> 3708
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086e09b2

<400> 3708

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catgagacag ggcagggcag ggtcattgat agttttggac atctctactg cgaactgttc 180

acagcc 186

<210> 3709
<211> 107
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086g07b2

<400> 3709

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tggcttgtgt gtgtgatata ctatatcaga ttctgaaaca gattacc 107

<210> 3710
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087a07b1

<400> 3710

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agtgtgagct tgtgatgaac tggtgcgtgt ttgccatttt ttttctaagc attgctgaga 180

ggccaaactg agctgcaaat atgcagttgc catgaac 217

<210> 3711
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087a08b1

<400> 3711

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ctccatggat ctgtacgcgg aatacattat gcacagccta aggcagtaga gtgtgtacta 120

ttactatttt tcctttgccc ttcctcctat gatgggatgc aaagaagatc ccctcggaac 180

atttggggtc tgatgaacaa ccaagcgagc ctgtatttct acattcttgc tttgtattag 240

ccatattttc ccattactgt ggcactatgt atctcaaatt tgtattcgag accttgtggt 300

ttggctcgtg tattatcttc agttcttact ggacggacaa taatataaca atttatc 357

<210> 3712
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087b08b1

<400> 3712

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ctaccttata tt 72

<210> 3713
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087c04b1

<400> 3713

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acaactctgg gaaaagcttc tgctggagga catcacctgc ggcatcacct gcatcgacct 120

ctcgctgatt accatcccaa ggatgcgcga ccgactggcg gagcagggca ccagtgataa 180

gttcaccgat ttggtcgact caccgttccc ttcctctgtc cacgcaatgc cgctcgttgt 240

tgttaggttg ttaattcatc aagcccctta ttgcgctaca tagtttgttc atctcgcatg 300

ccttcttagg agaaatcatg taatgaagat aagctattct tgatttacat tttattt 357

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<211> 348
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 3714

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acccagtgca agtgcggcac cagctgcggc tgctcctgct gcagctgcta gatcattgat 180

catgcatgcg ccgcgtgcat catatctatg atctatctac catctactac catgtaacgc 240

tgcctgatcg agggtctttg tatgtatgta cgcacctgcc tgcatgagca gagcgggtgc 300

catgccatgc atgtaaaccc ctaaataaaa tctcccgtgg ttntgctt 348

<210> 3715
<211> 287
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087f02b1

<400> 3715

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gaagctatca aggatggggt tgatgtgctc tcactctccc tcgcccctgt ctgtttttta 180

tgttaaattc agtcgagaca tgtctgtaac tagtagggtt tccatgtctg taaaataatt 240

caagtttgga catgtagcat ccattcctct ataactctgt tactttg 287

<210> 3716
<211> 333
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087f03b1

<400> 3716

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gttgcgagag tcgcgctgga tgcaataagt taagcctttg ctttgcatcc attctccgct 180

cttgcgttgg gagctcggga gagtttagtc atgtcttgat aatctgagag tggacatgta 240

gttcatcctg tatcggctgg ttaatttttc ttccacctta cttgggaagg aagctgtaga 300

tactcagata gaataattat caatattctc ggt 333

<210> 3717
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087f05b1

<400> 3717

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tggttcccat tgaagattgc tggatcttgt ccactctttt ttgtttgttt gtgttttatt 120

cctggcattt gccttatttc caccttcccg tatattgttt caacggtggc agtatgtatg 180

tatgttcaac tatgtttcct gagccggtag tttatgacaa gaggcagacc gtaaactcgg 240

aacct 245

<210> 3718
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087g02b1

<400> 3718

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aatgcagcat atgccaggag gagtactctg gtggtgagga ggtggggaac atggcgtgta 120

agcactacta ccacatcacc tgcatacagc actggctccg gcagaagaac tggtgcccca 180

tctgcaaatc cgtcgccgcc aagaccgtct agcactagca ctagcagccc ctgcttgttt 240

agtgtaaaca gattctcctg aaatgtctag acacaagatt tgtattcttt tttctactct 300

ctagaatgaa acatttgttt gtgccttcaa gacttcttgg cttccttcag ttcacaaggt 360

tcagtgaaca aagaaaaagg gaacagg 387

<210> 3719
<211> 371
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087h04b1

<400> 3719

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gtggtggaag gctgctggcc tgcatttcgt ctcgccctgg acagtgtggc agagctgatg 120

ggtacatcct ggagggcaag gagctggagt tctacatgag gaagctccag aagaagaagg 180

gcaagggtgc cacagcttag gctgaagagc tgctgcatgt tactcgttgg attttcttag 240

atgttgcgtc catgtcatgt ttgcagacat actgaacacc attttctgta aacggttcga 300

gtcctaggtt gaactgagaa tgttttgcct gttttggttg tgttgtgatc taaagctatc 360

cagattcttt t 371

<210> 3720
<211> 218
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087h05b1

<400> 3720

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tatgatttgt ctgtctaccg tagttttcat ttggtctggt cgtggagtgt gtgcaatttg 120

atgtctccgg cacatttgtg aggtcctggg cagtgcttgc tggttcttgc cagcggcatt 180

tgttgttgcc tctgaataaa cgcctgccca tattgttc 218

<210> 3721
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087h10b1

<400> 3721

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aaagaagaag gaagaggagg atgcttccaa ggctggtgag gacgatgatg acttggatga 120

tgaggatgcc gatgatgagg acaaggatga caaggctggg tctgatgtcg agtctgatga 180

cgagaagcac gatgagctct agatggatgg tgaggatgag aggaggccgc ctgccttcgc 240

gccggtgcca tgatttatta gttgtctctc attatgatgt tccccttttt gtgatcagaa 300

acttgacaag ttactgtgtg tagaagaaca acatcaccgt ggggtctttg tagcgctttt 360

gtagtccaat ttttaccgga agggaacttt atagtcgtta aacgagcaaa aaataaaaaa 420

tcttgcact 429

<210> 3722
<211> 181
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089c08b1

<400> 3722

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agattgctct gtcatggcct gtgcctatac tgtctgtatc ttgaacacaa acattttgta 120

acgtcttgtg tgggtttgta atgttctagt atcatatcat attgattctg aactcgggca 180

c 181

<210> 3723
<211> 80
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090b11b1

<400> 3723

gaaaaccaag gaagggaggg ttaatctaac tttgcgacag aatccaaaac gtatacatat 60

ggatcaggtc aggcttgccc 80

<210> 3724
<211> 301
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090d07b1

<400> 3724

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ctacctccgg ctgaaccgtt tccagggttg gcaggccgtt aagcagaaaa gataactctt 120

cccgaggccc ccgccggcgt atccggactt cctaacgtcg ccgtcaaccg ccacatcccg 180

gctcgggaaa tcttaacccg attccctttc gggggatgcg cgtgatcgcg ctatctgccg 240

gggttacccc gtcccttaag atcggcttac ccatgtgcaa gtgccgttca catggaacct 300

t 301

<210> 3725
<211> 61
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091a01b1

<400> 3725

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g 61

<210> 3726
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091a08b1

<400> 3726

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tgcaaatgcg ctcactgaag ctattgatgt atacagcgaa tggatcgatg agtgcgagcg 180

tgtcaacact gttgaagatg acgatggtgc atgagcaagt gtaactataa tactctatga 240

tctcaacgtg ttgatgtcat ttactgccac cgtcagccat atctgtagta gcattgtaac 300

aatgtactgg ctgacttaaa cgttagtagg cagtttgtcc cgtgcttaat acacaaccga 360

tgatattgtg tacctgtatt tgtaaacctt ggtatagcgg ctgagattac acct 414

<210> 3727
<211> 198
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091a09b1

<400> 3727

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accccaccgc cggcccccgt cctgggcgcg cccgtcggct acccgccggg tgcgtaccct 180

cctccgccgg gcgccccc 198

<210> 3728
<211> 263
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091d04b1

<400> 3728

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ttgagtactg tctcagaaca atatttcttg tgtaatggtg tgcgtttttt tcattcgtat 180

gatccagata tatagataga catgtcagat tgatctgatg gccttaccga atgcatattt 240

tctcggggtt ccctttttg gat 263

<210> 3729
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091e10b1

<400> 3729

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cctcgtcgcg gccgtcatcg ccctggtgtt catgctcctc tgcaccccgc cgaagcggcg 180

ctccgtcacc atctacccgt gctgttgagg ctgaggagtc tccaaggatc tctggttgct 240

gggaggaagg ttattcggtt gttcatggga gagagcaggc caggcaatgg tccctggttt 300

tcttcggttc agaaaataat ttctactact gaattgtagg gctcgtcgaa actgtaagcc 360

atgttttatc ggtatattat taggctgtcc atctccatct gtagcatgaa ctgatacatc 420

tggggaaaat agatatcatc agactctgta tgttgttttc 460

<210> 3730
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092a04b1

<400> 3730

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aacagcctag caagtcaaag aagagcaaac gtaagcataa tgatggtgca cctgccgtag 120

aggtttctgc tggcgatcaa atcgtgacaa gggaagataa gaagagaagg aaggaaccag 180

ttgtgctgga agcgagcaac caaacccaaa acacaaatga aggtgagaat agagagatta 240

agaagagagg aaaggaaagc agtaaagcca gttcagactt tagtgagaat gcatctgctg 300

ggggagagga agctggttta ggtgttaata atgataagaa gaaaaagaag agcaagggga 360

ttggaggagg 370

<210> 3731
<211> 257
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092b05b1

<400> 3731

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ccatggtgtc taagtaaact aattggtcaa gtattaagct cggctggaag atctgcagaa 120

gaccaagggg atggctggct gcgtctttgt tcttcttaac ataaacttaa attgtcaccc 180

gcaaaaaaaa aacttaaatt gtaccttggt acattgtaat atcatacagt atgcatgcat 240

aaacactttt aattttt 257

<210> 3732
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092b10b1

<400> 3732

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gaattggtgt ccggttctgt cagtacatat cacacacagg tttcgcttga tttattatac 120

ctactaagta ttagtgctgt ttggctgtga catgtccaca aatcagcatt ggtgccatcc 180

<210> 3733
<211> 99
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092d04b1

<400> 3733

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gtcgccgagg aaacaccggc tgcagcggag gaggcccca 99

<210> 3734
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092e06b1

<400> 3734

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cttgctcatc cgcgtgcagc atctctctag cttcccccta gagagatctc acagccgaat 120

aagcagcagc aagaacccct ccggccctcc tcccagcacc accaggaacc aagtcaagtc 180

gccaatggcc ggtctcagga tgaagttcgt cgccgtcgcc gccatggccg ccgcgctcgt 240

cgcctcc 247

<210> 3735
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092f05b1

<400> 3735

cttcgaccag gccacctacg acaagctgct caccgaggtg cccaagtaca agcagatcac 60

gccctccgtc ctctccgagc gcctcaggat caacggctcg ctcgctcgca gggccatcaa 120

ggacctgatg gagaggggc tcatcaggat ggtgtcaatc cactccagcc agcagatctt 180

caccagggcc acaaacacct gatttacctc atgtgttggc tgcctgtttt ctagtccagt 240

agactgagat gtcgctgtta tattgacgtt cattatgttc agcgaggcac tttggcactt 300

cgtgccacaa gtatgttgaa ttgcttttga gtttttggta caatctaaga cgcaatgaaa 360

tctaccttat att 373

<210> 3736
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092f08b1

<400> 3736

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tgtcgcattc gattgtatgg aaggctcatt gggtttatgg tcccttggat gagaagacca 120

agtaggagga aagagctgga gatggccata tccacttgac taagtagttg gttatgctag 180

tggtaaattt tgtgagaagg tgcatgcgaa ctgctgtgta aacggagatc accaaatcat 240

atcaaagttg aaacggacat ac 262

<210> 3737
<211> 86
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092g09b1

<400> 3737

tgtctgaact gctaagtgtt atgtagttcc tttccggttg aattgttatt ccctgtcgag 60

gacgaaatga aaatttggtt gcccac 86

<210> 3738
<211> 151
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093c02b1

<400> 3738

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aacttatcat ctttttgtct gtaatgtaac acctgaagtt tagctttgat tcagtgtaac 120

atgatgcaca cgtacgttat tgtgtttttg t 151

<210> 3739
<211> 224
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093c07b1

<400> 3739

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tgtgtgcccc ccgatgtgtg cctgtacgag tgtgtgttct tgtgatgtct cctcgtgttg 120

aatgttcagg cttgtgcttg cgatcctgtc tcatctttta ctgaaatgag cgttcctatg 180

ctctggttta ataataaatt gtgcctagat attatctcag cttc 224

<210> 3740
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093d02b1

<400> 3740

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gcgccgccat acgggcgagc tcggcgacgt ggaaggcgaa gttgcagcaa gcgattgcgg 120

ccggcggctc gtccggtcgt aatctgagga ctttcctgga ccaatttgcg aatgatgctt 180

agaagcattt atgtactatg cgtcctcgtt ttgttctact aaaatagcct tgtttccgta 240

tgatattctc ccactaaaat gagcaactca gctcctgtaa aaaccttccg tccatggaat 300

agtatatttt aggag 315

<210> 3741
<211> 135
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093d03b1

<400> 3741

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atgtaccaat gtggagtcac ataggttatt tgtgcctgta gagtaagaat tatattaatg 120

tgatggactc ctgtc 135

<210> 3742
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093d10b1

<400> 3742

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cttctcagct gtaattctcc ctatgaatgt tcttgattgg gtttgacggg tttggccata 120

cacctcatgt ttggtctgtt ttttgggggc tcgtctagtc tctagggcat gtaaaatggt 180

tctattttaa gaatgtcacg taggataaat gatgagatga tctcttagca c 231

<210> 3743
<211> 114

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093e11b1

<400> 3743

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ctaacatttc aattgtgctt cgatgaggcg caaacttgtg ttcaaacatg tctt 114

<210> 3744
<211> 83
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093f01b1

<400> 3744

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tctgctgtcg agccagttcc tcc 83

<210> 3745
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093f04b1

<400> 3745

ctgtcgcgtg ggcggacgcg tgggcgggtt cggccagaca cttccgccgc cgccgccgac 60

gacgcgaaaa ggagagcgag gccgactccg ccgccgcgat gagggccaag tggaagaaga 120

agaggatgag gaggctcaag aggaagcgcc gaaagatgag gcagcgatcc aagtaggcgc 180

cttggagcag cggaagcatc atcctacatc caggctgcca ggcaccgagg gatgacggca 240

tggtctagtg attcctggcg tgtttgctgc tatggctgtg gaagctgttt aacctgtgtt 300

atgtccaatt tagctgttta attctagtct ggttatgttc caagacagag ttttatgtaa 360

tgtggggatt atatgtgttt gtgactgaat tttatgcacc tattaatttt gcggcgtc 418

<210> 3746
<211> 105
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093g11b1

<400> 3746

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tcgagctcat gtatgattac tttcatttgt atgcatagtg tatgt 105

<210> 3747
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094a09b2

<400> 3747

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cctcgatagt ttatatgttc tgttgatgta aaatggattg tactggttca taactctgtt 180

gtgtgatata ttttgtcaat ctatgttgta tgtcatcact ttgtagagga ttttttaaac 240

tgctgtgttg tagatacata cagatggctg tgttaaactt tgtaatgttt cacaccttgc 300

aaatattttt tgttggg 317

<210> 3748
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094c04b2

<400> 3748

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caattgcgac atgccacggt ggccctgctg aaatcattgt gaatggggtg tctggtctgc 120

acattgatcc ttaccacagt gacaaggccg cagatatctt ggtcaacttc tttgagaagt 180

gcagc 185

<210> 3749
<211> 119
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094c06b2

<400> 3749

atctctgcac actttcatga atttgatgca atcgaagtga cttgtgttga tgctaatttg 60

agctttgcgt ttggtcttac catattggtt ggtttcttta ccatccttcg acttactgt 119

<210> 3750
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094c09b2

<400> 3750

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tctaaagatg tgagcctgtc tgtgtcggtg ccgtctgtcc gtaatctcgg tgatgtgtat 180

gttcttcttc atatttatgt atttgtagtg cagtatgccc gccgccagcg gggaaacccc 240

gaaagacggg ggatactgtt gtgatgcatc aggaacgccc caaagtgagg gtggatgatg 300

ttgggagtgt atcttgctgt ctctgtacct taccttggtt tggaaagttg gaaccttgca 360

tttgacttg 369

<210> 3751
<211> 360
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094e02b2

<400> 3751

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gcttgtgggt caacaatcgg gccaatactg gctagcggtg ttggtattcg tactgtggat 120

atcggagcgc cacaattgtc catgcacagc atcagggaga tgtgcgccgt tgacgacgtc 180

aactactcat atgaacatct caaggcatat tttgaagaat tcactgaatt ggataacaaa 240

gtcaaagtag actgctgagg tgtagtagac gaccatataa ttgggtcagc agaacctgta 300

cttctacaat cacaactaca atgcataata attagtaatg tcagattatg tatgttngtg 360

<210> 3752
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094f05b2

<400> 3752

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aaaaaaagag aagaggctga ctgcctgcta gctgactggt aaaaaagaga gaagtcaagg 120

gctgtgtgcc cagccagctg gctaag 146

<210> 3753
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094g05b2

<400> 3753

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cgtcatgtta tgctgtactt aggcttacct aatggcgtcc ctctttcagc gggatcctca 120

acgcgtaatt ccccatgttg acagtagctc gtactggtcc tccatcacct gcaacgtcaa 180

aataatcaac actgtaggta cttgggcttt acctaatgac gtttcaatgg caatttcggc 240

gctccgctgc tg 252

<210> 3754
<211> 240
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095a02b1

<400> 3754

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gtgtgctagc gcaagcaggc gttaccagct tgcgcgctct gagtatacgg aaaatctagc 120

atagcccacc tctctgcgtg tatgcttgtt acccttgtgt tgaaactttg taaggagcac 180

catcgttaga tggcttgtta ccctctccca tcaaggttga ataataatat atgctttctt 240

<210> 3755
<211> 310
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b11b1

<400> 3755

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cgtgtgctcc tacgtggcac ggcgtgatgc tcagtcagcc agtggagtgg actggagtgg 120

agtgctactt tttactacta ggtgtggggt gctttgcgcg gggtccgcgt gacgtgggct 180

aaataaaagt gttgtcgggt cgacgcccag tcccaagtgt cggtcagcag agagcgagag 240

acgcagtgcc agtgtgccac tctagataat gtatgcttct tttctcgaca agacatgctt 300

cattatttct 310

<210> 3756
<211> 133
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095c02b1

<400> 3756

ctgatctttt ggtgtagccg tttagactcc ggaattcaac aaccctgtgc cgcgggctgc 60

gcttgtttca tgaacctatg cattgccgtg ttctcccgtg ttccaagcgg ggaggagaca 120

gatcattcgc ctt 133

<210> 3757
<211> 133
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095c07b1

<400> 3757

tttgtaaaaa taagaaataa aaattaaaaa aaaaaataaa aaaagaaaaa aatctaaaaa 60

acacacgaag aaaaagaaaa gttataaaac taaataataa aaaaataaga caaaagaaaa 120

tagaataacg gat 133

<210> 3758
<211> 130
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095d09b1

<400> 3758

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gcggccgttt 120

tagaggaccc 130

<210> 3759
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095e01b1

<400> 3759

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aagaatctga ttggtgaggc taactgtcaa atctgccagg aaagcttcag caccactgca 120

aatgcgctga ctgaacctat tgatgtatac agcgaatgga tcgatgagtg cgagcgcgtc 180

aacactgttg aagatgatga tggtgcatga gcatgtgtaa ctataatact cgtatggcct 240

caatgtgttg atgtcattta ctgccaccgt cagccatatc tgtagtagca ttgtaacaat 300

gtactggccg atcgaaacgt tagtaggcag tttgtcccgt gcttaataca caaccgatga 360

tattgtgtac ctgtatttgt aaaccttgat atagcggctg agattacacc taatctcggt 420

acctgcaaaa gaattatact t 441

<210> 3760
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095e07b1

<400> 3760

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tgccatgttg tacaacacat actatggtaa gac 93

<210> 3761
<211> 471
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095f02b1

<400> 3761

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tgcccaaacc caaaccaaag cccgaaccaa agcccggaca gaagcccgaa ccagaaccca 120

agcccaagcc gatgccaaaa ccaaagccca acccctgctc caaaccaaag ccaggtccta 180

agcccgagcc aatgccgaaa cccgaaccaa agccggagcc caagcctaaa cctgaaccga 240

aaccgaagcc gcctcctaag tgcaaaccac cgacagctca cagttgatgg gatactctat 300

atacgacagt tcatggagga gaccccatac gaagccacac tatgctattt ctagaataag 360

tggtgtaata ttccctgtat tccagttatt tctattgttc catgcatgtg tgatgagtat 420

tagtactctg tatttttttt tgcttggtgg tatatgttca tctactttgg t 471

<210> 3762
<211> 228
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095g11b1

<400> 3762

tttctcacgc gtccgatcag aagaaagaaa tcgatggaca cgataattct ttcgctcgtg 60

gcgtccgtgt gcgcgtttct tatgttcatc tactggttgt caaagtagta ggatgttggc 120

cgcagcgaaa aggcgtcata gtgttgtaag tttggatcac agtgccggta cagataatga 180

tatgattggt gtttgtacaa tattgattca atgctatatt acttttttt 228

<210> 3763
<211> 135
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095h02b1

<400> 3763

cctttgcttc cgaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggggg 120

gccttttttaa aggat 135

<210> 3764
<211> 133
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095h05b1

<400> 3764

aatacattta ctctatcttt tcctccgggc ctgtgtgtga tgccctgccg taaatgttct 60

gaacctatgt attggaaggt cacatataag aatctgtatt tgttgtccta aaacctgctt 120

agtagtttgt gcg 133

<210> 3765
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095h10b1

<400> 3765

tcgattatca tccctgatac caaagctcat cttcttctcc ttgaaatctt tttgggtcca 60

cagatttgga ggatgtcttg caactgcgga tcaggctgca gctgcggctc agactgcaag 120

tgcgggaaga tgtaccctga tctgacggag cagggcagcg ccgccgccga ggtcgccgcc 180

gtggtcgtcc tcggcgtggc gcctgagaac aaggcgggac agttcgaggt ggccgccggg 240

cagtccggcg agggctgcag ctgcggcgac aactgcaagt gcaacccctg caactgttaa 300

gct 303

<210> 3766
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096b07b1

<400> 3766

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aacggcatga acgccgcctg cgggttcttg cacgccgtcg acaccccgtt cttgaaccgg 120

tccgggtcga accggtcaac cgtcgggccc caagaagcgg cgtcgtggtg catggaggat 180

accggcacga agaggtcggt gcccttgggc gcgagcagct ggcccagcca aatgtcgcgg 240

aaccgcga 248

<210> 3767
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096d02b1

<400> 3767

ctttgccgct ccttccctcg cccctgctgc tgctctccca acctcctcct actgcttctt 60

atcctatccc cacgctgctc ctattccctt tccttgctag tgttccttta ctgaagaaaa 120

caacctgctg gtgttcttta cctgttgctg atcctgtact tctctgaatc ccaaactgct 180

gcttctctct ctctttttct tgcaaaaata ttgtacgatg ccttgtaaga attggcgaac 240

tgtccagtat taaagcggtt tagtaatatt ctgttgatat gcgagtacta gtttagtggc 300

tcgcgtaatt tcgtttgtgt tgtcactcgt gtaacctgaa ccttggtgta gtaccttgtg 360

cccatatgtg tggctatgtg tgtactgtag ttccaacgtc aactatgctc atgtgaaaat 420

atatatgttt gtgctgcgat 440

<210> 3768
<211> 491
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316096d11b1

<400> 3768

ttgctccccc acccccaccc gccttccttc ctgcgcgact tgcctgcccg ccctcagtca 60

gccggccatg gcgctcctca ccgatctcct caacctcgac ctcaccgact ccacggagaa 120

gatcatcgcc gagtacatat ggatcggcgg atctggcatg gatctcagga gcaaggccag 180

gaccctcccc ggcccggtca ccgatcccag caagctgccc aagtggaact acgacggctc 240

cagcaccggc caggcccccg gcgaggacag cgaggtcatc ctgtacccac aggccatctt 300

caaggacccg ttcaggaagg gcaacaacat ccttgtcatg tgcgattgct acaccccagc 360

tggagtgcca atccccacta acaagagata caacgctgct aagatcttta gcaaccctga 420

tgttgccaag gaggagccat ggtacggtat tgagcaggag tacaccctnc tacagaagga 480

catcaactgg c 491

<210> 3769
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096e05b1

<400> 3769

gttaaccgat tgtggctctg gccgtgtgcg tgcataggga tgcaaatttg tagcgttctg 60

gggtgcctgt gacccttagt tcaactggat gaagt 95

<210> 3770
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096e11b1

<400> 3770

tcgcgaggtg ttgtgaactc aagtttatgt actatgtatc gtctatcagt tatagctagt 60

gatagtctac ttagcacatg tcacttatga cttgcgatgg ttaaactttt ttctttttg 120

cgatggttaa actatagtag tgtttaccgc tc 152

<210> 3771
<211> 290
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096f03b1

<400> 3771

ggaagatggc gcacaaggcc gagtgcacgc ccatggaccg gtggctcgac ggcgccaacg 60

cgaaccccaa ccccaatgcc gtcgcaggcg caggcgacgc cgcggtggcc gctccggccc 120

tgtaaccgcc gccgtgtcct tgcacccgtt tcttttattt ttctggccag ttctttcctc 180

tttttcttcc ttggtctttt tccggaccct tctctgtaca tggtcgctgc ggtaaaggtt 240

agccgagtct ggttacttgc gaattgcttt tagtaagaaa aacttttatt 290

<210> 3772
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096f10b1

<400> 3772

tcgcccacgc gtccgctcat catcatcccc gataccaaag ctcatcttct tctccttgaa 60

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ggctcagact gcaagtgcgg gaagatgtac cctgatctga cggagcaggg cagcgccgcc 180

gcccaggtcg ccgccgtggt cgtcctcggc gtggcgcctg agaacaaggc ggggcagttc 240

gaggtggccg ccgggcagtc cggcgagggc tgcagctgcg gcgacaactg caagtgcaac 300

ccctgcaact gttaagct 318

<210> 3773
<211> 491
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096f11b1

<400> 3773

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caacgagggc acgccgctgc gcccccgcca gcgcctcgag gactacctct ttgcgctctt 120

caacgaggac atgaagcccg gccccacctc cgagcgcaac tacggcctct accagcccga 180

cggccggatg gtctacaacg tcggcctcgc ccagcagcag accacgtcgg cggcctccct 240

ctccctcgcc gcctcctccg cgccccccgc catggatgtt ggaaaggact tgacgagcct 300

gtgcctcatc tcagctctgg ccatcctgct cacctcccag gctttcttac tgggatagca 360

aaagcaccca agagtgcggc catatgcatg caagcaaaat ggccttgact tttgtggacc 420

aaaagccttg cagaccaaag ggcagagatg gtgcaccatt tgaaggggc acaaggaaag 480

catatgcggt g 491

<210> 3774
<211> 95
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096f12b1

<400> 3774

tttatttttt gagctaaaaa aaaaaaaaaa aaaaagggaa aaaataaaaa aaaaaaaggg 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacag 95

<210> 3775
<211> 124
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g02b1

<400> 3775

ccctcgcttc cggataaatt gagaccaagt ttgtaaggct ggcaaggtta aggagctgcg 60

ctgcccagcc accatgaata atctgaacgt ggtgtaactt ttcatccaac aatttttcta 120

ctac 124

<210> 3776
<211> 225
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g05b1

<400> 3776

gtttactggc gccgagctcg ctctggcgga gcaccagggg aagtacttcg ccggcatcgc 60

taagaagctc aagtccgtct gaaatctgat ttactacacc gtaattcatg caatgcagtg 120

caaagatgaa ctcgtcatat atgtatggag caggatttac acaattctgt aacacgttcc 180

cgttcctttc cactcttgtt taataataat aataatactc cctcc 225

<210> 3777
<211> 158
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g10b1

<400> 3777

tctgcctagg ttttcggtcg ccgccggtga aactgggtag tagcggctcg cgtctggtct 60

cttctgtgtg ttggtgttga tatgctgtgt cgtcttgtcc tatgtagcct gatgctggaa 120

tgaaatggca atgaaaggtt cagttatcat ctggtgct 158

<210> 3778
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g12b1

<400> 3778

tttctttatg ctggttggtg acgtcccatg ggagaggttc accgagtctt gccggaggat 60

cagggtcatg aaaagttcag atgtgattgg acttggagtt acaagggcag gggtcaagtc 120

caagaataag aactaagacg gtcgctgccc acggtttgaa gacgaggtcg cacatatcgt 180

ctgtactact gcatggtttt cctatcccgc aagtaaaatc acccgttact ctactgttta 240

agatttgcga tatctcctag agacttatgc tctatatttt gttgtgccca cgttgttgta 300

cgcgtgttat ttccatccgt gtaaatggtt ggtatgcagt gcgagagcta ctgctgtgtt 360

tgatgacccc tatgtatttt gccactcttg tcctgaaccg gtcgttcgtc gtaaatgtga 420

aggttgcaag actattattt acctgacgaa ctttgcttgg gc 462

<210> 3779
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096h09b1

<400> 3779

tctcctacgc gtccggtagg gtttccagtt gcaaggggcg ccgccgccgc cgccgccatg 60

ggacactcga acgtctggaa ctcgcacccc aagaactacg gccccggatc gagggtttgc 120

cgtgtctgcg gcaactcgca tggcctgatc cgcaagtacg ggctgatgtg ctgcaggcag 180

tgcttccgca gcaacgccaa ggacattggc ttcatcaagg tatgcgacgc cacactgtcc 240

atggatttcc taaatttgat ggccgccgag taatactata ccgttaagaa tggaaacctc 300

aaaggaagca aggactagga aattatcaac gaactgtggt gcttcatcga ggctgatctt 360

tatcctataa gctatgtaat gaactgctat tatgtttgaa tcctggtgac aaaaccgtga 420

aacatagtta gtgactgctg tttg 444

<210> 3780
<211> 211
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097a11b1

<400> 3780

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cgcctatgat cgagcacttg tattccagcc ctcgaggccc ctggcttgca ttatgatgct 180

tgtatgactt attttatttg caaagtgtgt t 211

<210> 3781
<211> 135
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097c10b1

<400> 3781

tttcttcatc ggacgaatgg atggtcgcat tctgtatgta gctagctgcc agtttgtgtt 60

ctgaagatgt tatctcgtga gaatcaaatt gcatcgcctg tcggcctgaa gaaatagtaa 120

tgttcctttc agtgt 135

<210> 3782
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097e03b1

<400> 3782

gtttaatcca aggaggaggc catggctgac tacatcacca aggtgaagca gctgctggag 60

gaggctgccg ccgcatctgc ttgatcccag gccacaaaac cgcaatcgct attgttatcc 120

tggtggtgca gccatatgtg ccagcaaaca caaataagtt tcaagtacta gttgttgtca 180

agcttatcgc cgccgtgggt gtaattacgt tgaacaagcc ctgtgataca tgaaagtgca 240

atctcagttt acaccatgat tgattaatac tcctacatgt cttctgttgt taagatgttt 300

tttttctttg gggaatccct gttcctgat 329

<210> 3783
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097e11b1

<400> 3783

tctctgctgg gatcatggac catgaggagg caaggcgtaa gaatgttggt ggcaaggtgc 60

taggcttttt ctactgaaaa tggaaaatgg aaaattcgat gaaagtatct gagatgtgtt 120

agtaggatat ttcccaagga acacctaagt tgtctttttt tgtctgacta gctgccgctg 180

cttgttgagt tattctggaa tccgttatgc actttcggat tgggtgcctt tgtttgaaaa 240

ctatgagctg tgcctgtcgt taattctgaa aaatccatat gcaatatt 288

<210> 3784
<211> 183
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a02b1

<400> 3784

tgcatcagta taggcatctg tgcttgtgag ggggcatcca ttactcccgg cactcttata 60

tgaagaatct gcagaggatg cagtagcagg taggtgtagg cttctgtatt ttgcagagaa 120

tgcagtatat gtggaatcta gcttttccaa gcatgatgaa tttaattttg ttttctttat 180

tat 183

<210> 3785
<211> 103
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a04b1

<400> 3785

tctattcgtc cgaaaaaaaa aaaaaaaaaa agggggattt aaaaaaaaaa agaggtgaaa 60

aaaaaaaaaa acaaaaaaaa aaaaaaaaag ggggggccgt ttt 103

<210> 3786
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098b03b1

<400> 3786

tgcttttgac aatcgaaccg gagattctcg tggtttctgc catgttgatt tcgaggacga 60

tgaatcgctc gagaaagctg ttgggatgaa tcaatctgaa ctgcggggaa gacctgtgaa 120

gatagcgtat gctatcatca acagggcttg aaggctggct agctggtgct caacatttcg 180

cattattgag ctagtgagat tcagttgtaa ggtcttgccc ccttcactgt ttccattatg 240

tttctataga ccaaacatgc catatattgg ccagaagtaa tgatcgtgta acaaatactt 300

ttgggctgca tcttatcaat ctatcttaaa aatcatgctg ctcgttgttc tgtc 354

<210> 3787
<211> 486
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098c08b1

<400> 3787

tgttagaagc acacaggaag ctcctagcca acaccaatca aagcctccat ccaatcccaa 60

gcaacctcga agatgtcttg ctgcggagga agctgcggct gcggcagcgc ctgcaagtgc 120

ggcaacggct gcggcggctg caacatgtac ccggaggtcg aggccgccgg cgccaccctc 180

ctcgtctccg ccactgccac ccacaaggcg agctccggcg ggatggagat ggcggcggag 240

aacggcggct gcggctgcac ccagtgcaag tgcggcacca gctgcggctg ctcctgctgc 300

agctgctaga tcattgatca tgcatgcgcc gcgtgcatca tatctatgat ctatctacca 360

tctactacca tgtaacgctg cctgatcgag ggtctttgta tgtatgtacg cacctgcctg 420

catgagcaga gcgggtgcca tgccatgcat gtaaacccct aaataaaatc tcccgtggtt 480

ttgctt 486

<210> 3788
<211> 127
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098d07b1

<400> 3788

tcgtcggctc aatgcctcct tggaactcca ccctgtttaa cttcttcctc ctgattcctt 60

ccactctaaa ttaatttagg gtctgggtgt gtagttttta tggtgggtgt gacggatctt 120

ggggagg 127

<210> 3789
<211> 128
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098f03b1

<400> 3789

atattaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaagggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggggag 120

ccgtttta 128

<210> 3790
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098f11b1

<400> 3790

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ttcagtgttc agtcgcagca agaaagaagc gaataatagc attccgtagt ttagggttgc 120

ctcctggccc tggacaatgg gtggtttgtt gtacttctgc atcgggctag gaaatctact 180

accaattgtt atcagactat tgtctgtact cctctaagat ctgtacatat gctatcttag 240

gaacttcctg gtgtgagata agttaaggag cacaatttat catgtgctgc tggtaatgca 300

agtgtgttct aaaccttaat aacaagtgga ttctctt 337

<210> 3791
<211> 193
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098h09b1

<400> 3791

gatgaccggc gccccaagcc cgagggaggt tttgttatgt taacacagtg gttacatcga 60

gacggccatg ctaaggaaaa aaagtctagt gcaaagaaac atagctgtat cctatatgtg 120

aactctgatc attccgtatt gacattgaga tatatccttg attcgtcaaa gcaagtgatt 180

gtaatggatt aaa 193

<210> 3792
<211> 85
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099a08b1

<400> 3792

atcacttgtc cggcacacag tgccagtaat ctacgagaag tatgaagatc agattgatac 60

ctatggcgag aaggggtgga ttgag 85

<210> 3793
<211> 106
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099b04b1

<400> 3793

tgtgcttgat cgcaagctat ctattttcct tcatctaaat cttgatggtt ggttttgccc 60

ttcaaaaaaa aaaaaataaa aagtaaaaaa aacaaacaaa agtaat 106

<210> 3794
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099b11b1

<400> 3794

tcgtttcaac ctccacaagc gcctccatgg ctgtaccttc aagaagaagg cacctaatgc 60

catcaaagag ctcaggaagt ttgcacagaa ggctatgggc acaacagacg tcaggatcga 120

cgtgaagctc aacaagctca tctggagcag tgggatcaga agcgtgcccc gtagggttcg 180

cgtgaggatt gcccgcagga ggaacgacga ggaggacgcc aaggaggagc tctactcact 240

cgtcactgtt gccgaggtgc ctgctgaggg tttgaagggg ctgggaacca aggttgtcga 300

tgacactgag tagaatcttt ctttatctac atcgttagaa tgagctgtta ttttgcattg 360

caccagcatg ttttttgtat cccatggaag ttttggagta tggaatatcg caagctatct 420

attttccttc atct 434

<210> 3795
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c05b1

<400> 3795

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gatgtcttgc aactgtggat ccggttgcag ctgcggctca gactgcaagt gcgggaagat 120

gtaccctgat ctgacggagc agggcagcgc cgccgcccag gtcgccgccg tggtcgtcct 180

cggcgtggcg cctgagaaca aggcggggca gttcgaggtg gccgccgggc agtccggcga 240

gggctgcagc tgcggcgaca actgcaagtg caacccctgc aactgttaag ct 292

<210> 3796
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c09b1

<400> 3796

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aagctacagc gcaaggtcgt gatggctcca cgcgtcggcg tgctgctcct ggccgtggcc 120

gtcttcttcg cctctgcgtc ggcgcaggac ttcatggcgc ctttctcagc ccccgctccg 180

gtgcctgacg ccggc 195

<210> 3797
<211> 172
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099f06b1

<400> 3797

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caccaagaag aaggtggaga cctccctgga gggccagatc accgagatcg tctacaaggg 120

cacgcacaac cacgccaagc cgctcaacac gcgcaggggc tccggcggcg gc 172

<210> 3798
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<212> DNA
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<223> Clone ID: uC-tsro9316099g02b1

<400> 3798

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tcggataaga tcatggcttg aaagttgcta agcatgtgat aggctgtttg gtatgggttc 180

agccttttca gttcctttgc tttctttaag acatgtaatc ctgcatattg gcacttgatt 240

ttgcatgttg gtcgttatat tggatcatag aaaaatacat cttgctc 287

<210> 3799
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099h09b1

<400> 3799

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ctgataagct tggcctgcac tcccttcgcc agcgacactg gtacatccag agcacttgtg 120

ctacaacagg ggagggactg tatgaaggcc tggactggct gtccagcaac attgccagca 180

agccctaaat tttcgtcaag attttgaagg agctaggagc gctttggatg gacgattgaa 240

tcaccgggta cctagggatt gtgttgggag ggatggtgct atgctattcc cgtatgtact 300

gtgtattttc ctgagatcaa cagttactga gccagctccg gctgaggttt cactgtcata 360

ctattgtttt attgtattcg agccctaaga tgtttgcgaa gcaaacagct aaagagagtc 420

ctggtcaatt t 431

<210> 3800
<211> 320
<212> DNA
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<223> Clone ID: uC-tsro9316100a09b1

<400> 3800

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cgacgatgcc gccgatggcg accacgacgg cgacggcggc tgcggccgac tccgcggcgc 180

gccgcttcgc ctcggcctgc ggcgtgctca gccagtacgt cagggcgtcc ggcgtctcgg 240

cgcccggcgt gctgggggcc gccctccagg agcccggctc gccggcggac ggggcgcagg 300

agctgaccat cttctacggg 320

<210> 3801
<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100a10b1

<400> 3801

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ggtgggcgtg cctccagaag cgcacggagg tgaagctcca ggacctcccc gtggtgctgg 120

gcgcctgctg cgtcctgcac aacatctgcg agatgcgccg tgaggagctc gagccggagg 180

tcccgtttgc gcttgtcgac gacgatacca cgccggagac ccctgttcgc tccgagaccg 240

ccaagcagga gagggacagc atcgcgcaca accttcttca ccgaggtttc gccggcacca 300

catttttctg atcaaatcac ctcct 325

<210> 3802
<211> 94
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100a12b1

<400> 3802

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aggtgaaatg caaatttcat tcttgtcttg cctc 94

<210> 3803
<211> 120
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100f02b1

<400> 3803

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accggtccga gctccagcct tcccttcaac catggctgac gttgatgtcg accccgaggt 120

<210> 3804
<211> 277
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100g08b1

<400> 3804

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atcgacctcc ccatcatcgg caacttcacc atcccgctcg aaaccgccgg cgagttcaag 120

ctgcccaccc tcagcgactt cttcggcggc gccgccaaga ccgaggaggc caccgcctag 180

ccataagctc gatctagctc gcagcttgct ctgcatccgc atgcctgtac tctaccgttg 240

ccgcaataat gagagcaaat attttcggat ttctttc 277

<210> 3805
<211> 179
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100h06b1

<400> 3805

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ctgaggtctg gcaaatagat tggatccgtc aaacatgggc tcattgcacc ctaaggatat 120

acacaatgtg ataatgtatc ggatttactt ccccttaat ctgcatgctg tttaggatc 179

<210> 3806
<211> 159
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101b11b1

<400> 3806

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cgcttctcac ccacccccgca cctacctacc ccgtacatt 159

<210> 3807
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101c05b1

<400> 3807

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tgctgcgggg cgccgggcgt gggggtgtac aacttcaacc tgacgtccaa gtgcggggag 120

ccgggagcgt acgcgtgcga cgacccgtcc aaccactgga gctgggacgg catccacctc 180

acggaggcct cctacggcca catcgccagg ggctggctct acgggccctt cgccgaccca 240

cccatcgtcg gcaaccggaa cctcgagtag tactgtagca gcagtggtac agggcttgtt 300

tttgcgtaca tgccacctgc acatgggttt tactactgta tgtagagaaa gaaaggaaaa 360

caagtcaaag aacacacatg ccttgtgcag attaattgat tgctaatt 408

<210> 3808
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101c12b1

<400> 3808

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aacaacgagg agaaagctga accttgtatc attgcaccag tatgctggga tgatagggtg 180

ttctggttcc tgatatgtct gggttgctgt gatatttggg tgatgccaac ccttgtaaca 240

tgaggataat tatatgcttt ccatcgaggc tggatattca gcttaagaaa tattatcatc 300

tatttttgat tt 312

<210> 3809
<211> 117
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101d03b1

<400> 3809

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gtctcaccag tgttgttaag ctacttgtct gtacaattcc ttcctaaagt ttcgctt 117

<210> 3810
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101e10b1

<400> 3810

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ggcggccctg gggctctgga ccttcgacga cgactgcctc gtcgacgagt gcagcctgtc 180

gttctagatc ttgttccgtg tgcgtccgtt catgtcatga gatgcggtgg tgtaaataga 240

gtagcttgcc ttgtgatgaa atccgttcgt ccgtcgtcgc ttcttggatc agcaagcgat 300

gatggattct gtgtaagagt ttggcatcgt cgtgaaagat tttgcctacg ccttcgatgc 360

<210> 3811
<211> 52
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101g05b1

<400> 3811

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<210> 3812
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102h11b1

<400> 3812

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tattttgtat ttcagcatgt aagctcggtt ctagctagtt atgttttcca gatgttgcct 120

tcataatgag tagcagtgga agactcggta ggcgtctgaa aactgaaact gcgtcgcagg 180

ttttgggcag gctgcaaaac tctattgtgg gagtc 215

<210> 3813
<211> 294
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102h12b1

<400> 3813

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ccatgagagg atcgctcgcg acccagcgct agcgcggttc tttcaactcc cggaggtcga 120

atgaacgcgc cccgctacgc cgtagccgcg gccaagttgc tcgccaagca cttgccggta 180

gcgccttccg agccgccggc tcgcgagcgt ggcttggaga cgatagagcg cgccatgcag 240

gcgcgcgctt ttcgtcgtcg tcgccgactc ctgctcggcg gcggaggctt cggt 294

<210> 3814
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103a07b1

<400> 3814

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actgcagacg gaaacggcca aaggagagcg gcgtggggcg gagcgggggg cgatggggaa 120

gtacatgcgc aagtgcaggg cggaggacgt cgcggtgggc ggcgtggagg tcacgcaggc 180

cgtcggcgtc cggacgcggt ccc 203

<210> 3815
<211> 271
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103b07b1

<400> 3815

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tgaggcagtg cagcacctta gagaggcagc tgctcggcca cctctcagcc acgaagatga 120

agatcgccaa ggccccggtg ctcctgaaga aggcggtgac catgtgcaag agcaagaccg 180

gcgtgctcgc ggccaggctc ctcttcctcg cctcgctccg gcgcaggatg gccaccgtcg 240

gcgtgatgtc tcacaagata cacgcgctca t 271

<210> 3816
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103d01b1

<400> 3816

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gaactgaatt cactgataga tactgtagtc aggagcctac tgtgtagata atcggagctg 120

ttatttttc ctggaatgct gtaattgtgt cttggtgtgg atgctgcgct gcgttggcgg 180

gattattggt ggccgaataa tattggctgg gtgtagggca ggagttcttc ctggaattaa 240

tatgctgtga ttgtgtctcg agtaacattt tgctcttt 278

<210> 3817
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103e08b1

<400> 3817

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aaagatgctt acatatgttg tggattgttg tgtgctcgct ctaaggatgc ataaataaag 180

gagcgccttg tcattttcca aagagaagtc ctgggtagat catagaatag caaggcggtt 240

atgtcttgtt accttatgat gatacctacg gaactttctt ttggaaaaaa tagtatgcat 300

ttagagtgct tttcatatgc agctacagcg atttccatat gtgtaccgtg tacaatatca 360

tataccataa gataagatca caccttgt 388

<210> 3818
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103g09b1

<400> 3818

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cttggcgtgt cagttgcccc ttggatacat gaccattatt ctttcatatc agagtggacc 180

atgcttgctt gcattatcat tgaaaattga gtccccatcg gtggtcgagg gatagccatg 240

tttgaaccag tcttttcctt cttggagtga gaaatagccg agttccctat ttttagggtg 300

gaagcactca tattcatgtt ctggttacgc ttactgtcaa tcttatcata ttggttaata 360

catcttgaac aattgatctt ctgcaagatt ggggttgctc tttatgac 408

<210> 3819
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103g12b1

<400> 3819

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attcttcatc tccgtgtatc gattgtatcc ctacatatgt atatggtgta catgcatgta 120

atacgtaatg gtgtacattt tgcttc 146

<210> 3820
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103h11b1

<400> 3820

cttaggcatc gccggcatat ggctgaaaat gcaccacatc gacgcaaagc gcgccatggc 60

tctgcccggc aagtgcggtc tcaccatgcc caacaactgc tcgtgatgat tggttcagat 120

gtactaccca tgagcatcta ggagtcggtt gctctacatc tgcatcaaca cttatatatg 180

gctaaataag tggagaagca cttgaaaaag cattgtccta ctcggtctta ttgttattgt 240

gtaatttgaa agtgtgatta tctcattaag ctcttgataa aatagtatat gcatgttaag 300

tgtaaggatg gcaaacgcgt cttgcatgtt gtcccatgaa attaatatct t 351

<210> 3821
<211> 84
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316104b10b1

<400> 3821

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cttataaata agcatttttt ttct 84

<210> 3822
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316104d06b1

<400> 3822

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agccgtccgc ggtcgtcgac gacgcgacaa cctcgtcccc ggcggtgacc accgtcgcgc 120

gcgtgtgcca ggtcaggatc cgagtcaaga tctggaagtg gaccttctag tgacgactca 180

aactcccagg gggcacattg tgaaagcgaa ccaaagccac tttacttttc acctgggacg 240

cgtcggtagt agagatcaca accgactgtt gctgtaaaaa aatatcccat ttgaatttta 300

cgaaattt 308

<210> 3823
<211> 144
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316104d08b1

<400> 3823

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gttcgttggc aagagtatgg cactgaaatt gttctctggc tccctcccct cacgcaacgc 120

gcccgcgcgc gccgggggggt gggg 144

<210> 3824
<211> 140
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316104g11b1

<400> 3824

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cagaagctgt aataaactta aaaaatggta ctgtactaga aggaataatc ggcacaacga 120

tataaatgtg ggtgtttact 140

<210> 3825
<211> 201
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316104g12b1

<400> 3825

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taatgtgtga cctaaggcat tgttgccagt atttcaacag tgaagatacg ctctttggtt 180

gtatatatat tgaagttgat c 201

<210> 3826
<211> 101
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316104h08b1

<400> 3826

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aaaaaaaaaa aaaaaaaaca aaagaaaaaa aaatgaaaaa t 101

<210> 3827
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316105b05b1

<400> 3827

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gaccagacct tccacgtgtg taatggtaca tttacgtcga tgaacggaga ggaatcacct 180

ttattaaaaa aaaagttata gtagtttatg ctgaaaaaaa aaaaaaaaaa aatgaaacta 240

cataagtaaa aaaaaaaaaa aagaaataaa agg 273

<210> 3828
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316105d06b1

<400> 3828

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caacggcaag aaggtcatgg ccgcctgcaa ggtgcccgtg ccatcatgct agatcgacgc 120

atatatgatc gatccacacg agagagccca gcgcgcacgc gctcctctct ggcctctcgc 180

tgcatgtttc atgtgtgttg atgtgtcagt gtttgcttgt ttcccaacac tgtctagcta 240

ccctgacgat gtacgtggac cgatgtgtat ctgaatttac gcaataatga cgaagtttcc 300

agct 304

<210> 3829
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316105d08b1

<400> 3829

ttttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaagggg cg 92

<210> 3830
<211> 79
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316105e02b1

<400> 3830

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aaaaaaaact gaacaaaaa 79

<210> 3831
<211> 132

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316105g07b1

<400> 3831

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agtgagaaca agaaaaagaa gaagagcaag gagaccgagg agacccctgc agccaacacc 120

gacggcgaga ag 132

<210> 3832
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316106e01b1

<400> 3832

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ctagatctct gggggcctcc aagtcgtccg cccgcgaggg ggaagcgagg ggaagatggg 120

cgccatgggg ttcgtcgagg gcggtatcga ctgcatggtc gcctgctgct ccacccaccc 180

gctcgacctc atcaaggccc ggatgcagct gccgggggag tcctcc 226

<210> 3833
<211> 94
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316109b01b1

<400> 3833

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ctattttcta tataccccac acaagttcat atct 94

<210> 3834
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316109h09b1

<400> 3834

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tcaatgcttg aatagtcatt actcatcgat tcaagtcatt ttggttatgt cgccattatc 120

tgtcatgctt tcatcctgaa cagaacgagc ttttactgca caatcgcata ttattgtcaa 180

aaatgcaatc gattctgtag atgctgatgt tatctaagtg gggctcacaa taaaggacat 240

atagaaccgt tattcccatc tgatgattgt gtcatgtcta accagcagct tttacatttg 300

aatggagatg cttatagttt gctcgttt 328

<210> 3835
<211> 167
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316110c11b1

<400> 3835

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acattgtgtt tgttgattaa tttgctcccg tcaatcgatc gtcctaaatc tcgcaagatg 120

gtcatctgat gctcacataa atcaagtgtt cgacattatt taaggat 167

<210> 3836
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316110d11b1

<400> 3836

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atatatcatg caaaatgtgc tcacccaatg aagatactat tatttttgca cctccagtct 120

ctgcacctag aactagaagg cagacaaaag ccttggtgta tcactgaaat ttctggagaa 180

agaacattag atgtcttaga cgtagcaggt tctttgactg tttgacactt ccaagaccaa 240

agttgtgctg gttaaggaat aaatgatgta ctacatgagg ttggcctgtg ttgagttttg 300

cataacattt gttcatc 317

<210> 3837
<211> 196

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316110e10b1

<400> 3837

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tttaggctca ccctcccgtt gcaatgtaca ttcaagtgta cagtcagttt ctgttaactg 180

taggttcctt gtgtcg 196

<210> 3838
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316113a05b1

<400> 3838

acgggttctc tcactcccac cgctgccatc cccgcgaacc ggagagcgag gccgacaccg 60

ccgccgcgat gagggccaag tggaagaaga agaggatgag gaggctcaag aggaagcgcc 120

gaaagatgag gcaacgatcc aagtaggcgc cttggaagga ggggaagcat catcttgcat 180

ccaggctgcc aggcaccgag ggatgacggc atggtctagt gattcctggc gtgtttgctg 240

cgatggctgt ggaagctgtt taacctgtgt tctgtccaat ttagctgttt aatgcctagt 300

ctggttatat tccaagactg agttttatgt aatgtgagga ttatatgtgt ttgtgactga 360

attttatgca gctattaatt ttgcagtact ctg 393

<210> 3839
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316113e10b1

<400> 3839

ctttttaact tgaaaataaa ttcttgtggt gacaatggat ctattccgat actatgttgt 60

tatatttact aattgctcct tttctacttg atgaaccatg tgaaactctt gtcttgcggt 120

ggtgcttgag tgagcgtgtt tttatgcatt 150

<210> 3840
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316113g10b1

<400> 3840

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agaaaaagaa tgccgaacaa acaaaagagg ccagagccag caacgcccat caaaccaccg 120

cctatttctc aaaggaaaaa ctctctgccc tcagccatcc aatcagaagc agcagcgatc 180

catctactgc atcatcgccg ccgcgagaag ggacaccagt gccgaggaga ccagggccaa 240

agcggacacg ct 252

<210> 3841
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316113h05b1

<400> 3841

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cagatcaggt ggagctacag cgcccgctgg cagccggtct tccacaccat ggcgttgccc 120

cttctggccg aatggcggcc gtgtatttcc tcccagccta agagcgatag gggaggcaga 180

tgcatcttct atctggagtt cgaagcggtt ccaagctgct gcgatggtct cgtcgcccca 240

agtggtgcgt ccccggcgac ggcgagtcta catccaggaa gaagatgttc tggacccgat 300

tgcaattttc agatccagtt tagggtcctt cttgtcaaaa tcaagggctt aggtgttatt 360

ttccttttat gtgagtcctt gtgtgggctt tgtgttgtaa ccgctgaagt tttaatgaag 420

atctaggccc ttcatggcct ttcctgttc 449

<210> 3842
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114a01b1

<400> 3842

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tcgagggctc gaatacaaga gctcgatcat agacgagtca gcggaagcaa caatatctga 120

gtacagacat aagttaaaca agtttgcctt aagaaggcta gcacaaactg ggacacagat 180

cgaaagaggc gcaggcctcc tgcctgggat cctcctaaac tactcctggt cgtcgtcagc 240

gggcagcacg tagtagtagg cacctccggt gtagtaggag tcgtcgtcga cggtggcgtc 300

tggatcctgg gctccatcat cggaccctgt aggtgtgcaa tagtgtgcgc gaggaggagt 360

cggggaggcg ccggagctcg a 381

<210> 3843
<211> 89
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114a10b1

<400> 3843

gttgtttccc tcataatgcc ctttcttcca gagtctaaag agccatgtgt aattctattg 60

ccctattgtt cccaaattgt cattcttct 89

<210> 3844
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114b03b1

<400> 3844

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tctaaatctt cctgaggcag gtgatggcgg tgggcgcaca atatatctac agttttctgt 180

tgccgtgatg gtgtcgtagc taaagcaagc ataacatatc tgccctgtga ggtttttgga 240

ccttagatcg agttgattcg tagtattact actgagtgtt atttgcttcg tatgaaatga 300

gacaatgtgg ttggattcct gttgctattc tcttctgtct gccgtcttca tcgg 354

<210> 3845
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114c07b1

<400> 3845

ccgtctacga cgaacgaaga ccgacgcgcg accgacctag ggtttcgcgc attcccccgc 60

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ttgaatccgc atgccactcc tttcgtgcct gccttcaagt ctccgtttgc ggaaagcttg 180

agaggaaaga aggaccctga gaagcaagta gatgagactg aaaagaatga gactgctgac 240

aagtctgccg ggtatcaact cccagagtcc ctttcttttg atgactatgc tgaaagccta 300

ggaaagatca acatctctac tgagtcatca tcaaaaggag aaggtgctga ggcaagtcac 360

gcgggtaacc atctcgccgt ggtggaatct ctctcgctga tgttcccaga tgtgtctgct 420

gacttcattc ttg 433

<210> 3846
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114e03b1

<400> 3846

ccgtgtttta aggtatggat taggcgctgg gcttgctgtg ggtgcagttg ctgggggcgt 60

tggggcactt gcgattgatg aaggtgtgaa gtataaggag gaaaaggcgg cagagagggt 120

gggagagaag gtggctcctg ccgcaaggga cgattacagc gagtatcgtc gagagtattg 180

atgggagttc atgtgggtga ggatgcgctg tgagtcggtt cttctcaact cctgttaatg 240

tgggaataag ttgcagtgtg attttgtggt ttgctctgta tatgtatata tttgcttgag 300

agacatgaat tactatggtg cttgtgctta tggcctgcgc atatttacat atttggtctg 360

taccataaac gttttgtgat tacctttgaa gctgtacccg caacttgatg tctgcat 417

<210> 3847
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114e06b1

<400> 3847

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aatgtcccct gccagaagga acttggcaga aatggcgaag acagtgaact cccggagcaa 120

tcagaccttt tggtaaaaga gtgaaagggt agcaatcctg catgagaaga tccctggtat 180

ttttgcccgc aaacatcttc atgagtgcca gcgaagttat tcactgtttg ccatgaagga 240

cacagttacg caggggggac aatcctttga tatgtatcgt tcatgttatc tgtagctttc 300

taatggatta ggtagagcgt ggttggcatc tacatcaaaa cttgtctttt gtttacctca 360

agttctagtt ggatttcaca ccctgtttta tacatagata aataccattt ggttc 415

<210> 3848
<211> 294
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114f03b1

<400> 3848

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aggatgtctt gcaactgtgg atccgggtgc agctgcgggt cagactgcaa gtgcgggaag 120

atgtaccctg atctgacaga gcagggcaga gccgccgtcc aggtcgccgc cgtggtcgtg 180

ctctgggtgg atactgagaa caaggcgggg cagttcgagg tggccgccgg gcagtccggc 240

gagggctgca gctgcggcga caactgcaag tgcaacccct gcaactgtta agct 294

<210> 3849
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114g05b1

<400> 3849

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ggtggcgcag aggaacgtca agtcctcgct gctgctcctg ctggccatct ccacggtcgt 120

cgccttctcc atcctctact cgtcccggag cttgaccgtg gccaggacgg ccggcgaggc 180

gctgacgcag agccctctgc tcgccgccct cgacctgagc agcaggatgc cagaggatga 240

cgacgatcaa agcgatgagc cagcgttccc tgcggacgac agcgtgacgc ctgagcagag 300

cacacctgcg gaggtcgtct ccttgccagc tgctgctccg agcaccggtg aggcggccat 360

gcagctcgag gagaaatgcg acatttccag ggggaaatgg gtgcgggagc cgaatggccc 420

ggtgtacacc aacct 435

<210> 3850
<211> 205
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114g08b1

<400> 3850

cccactcgtc cggttaaaag ggcagcgtgt gtgttaactt ttcatgataa atttactgcc 60

tccatttttt gggatcaact ggtcctcgtg acgatagtcc aagaaccaac gattggaatt 120

tcttatggtg tgtgtacggc gattcagaaa gtaaaactca tgcctaggtg gtcaccggtc 180

agtaataagt tctttgaatt ctctg 205

<210> 3851
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114g10b1

<400> 3851

ctgttctctc cctctctttc tctctcgtcc gcggcgatac gatccgagat ggcgatgagg 60

gcgtggaggc ggagcgcggc ggcgagggcc ccggcgcacc tgtgcctgtg gctggcgctc 120

gtcgccgcca ccctggtgct cgcccagggc aagaaatcca acctttctga ggtgacgcac 180

aaggtctact tcgacatcga gatcgacggc aagcccgcag gtcgggttgt catgggactt 240

ttcggcaagg ctgttcctaa aaccgcagag aacttcagag cactctgcac aggagagaaa 300

ggtatgggca acagcggcaa acctctccac tacaagggga gttcgttcca cagaattatc 360

cccagcttca tgatccaagg aggcgacttc actcttggtg atggaagggg tggtgaatca 420

atctacggca caaagtt 437

<210> 3852
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114h08b1

<400> 3852

catcttcccc tggcaggagc tcgacgtcct ccgccagctc cacgacgccg acatgcggcg 60

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ggacatcctg cggcacatct gcacggacgg ctgcacggag gtcggacccg tggggcaggc 180

gccggccaac tcgccgtgcc cggcgtacgc gacgtgccgg ggcctgcagc tgctcatccg 240

ccacttctcc cggtgccaaa gccgggccac ctgcccccgg tgccagcgca tgtggcagct 300

gctccgccta cacgccgcgc tctgccgcgt tcccgacggc cactgcaaca cccctctctg 360

cacgcagttc aagctcaagg agcagcagaa ggaggcggtg tcggcttc 408

<210> 3853
<211> 66
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316114h12b1

<400> 3853

gtctgtttgt aataaaattg tgaagatgtg aaaatatcaa ggactactat tctgattgtt 60

ctcttt 66

<210> 3854
<211> 228
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316115b01b1

<400> 3854

attttttcc tccacagcct ctgaaaaccc cagatgatga gaagagaaga gaaaaaggaa 60

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tttgtttgtg tgccctgtat ttttggagtc gccggccggc caatctttcg gaaatgcata 180

taggctgagc tctgtgatga gatgagatga ggggagctgt tcatcatc 228

<210> 3855
<211> 106
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316115b09b1

<400> 3855

ctattctagc caccaccttg agcagctacc aaatcctcag ccaagcaagc atggccagcg 60

tgaattggag ccgtgcagcg gcggcgctct tgctggtagc agcgct 106

<210> 3856
<211> 106
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316115b10b1

<400> 3856

cggacgcgtg ggcagaacta ttctttctgc ctgtgaatgt aaaacataag attgcctatg 60

tgtcacgact caaatggtat tgtcatctac tcatctctat tatggc 106

<210> 3857
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316115b12b1

<400> 3857

atgactcgtg ggcggacgcg tggggcagcg cagcgtggac cctgtgttcg aggagttgtt 60

atattgatat gctgatatcg tatataactt cggtggaagc tggacaaggt ggacagggtc 120

ttcagattgt atccccatac aaaatcccgt ccccaattct acaagccacc tgaccaggga 180

agcctactct ctggtctcgc ggctgcgaat aattttgagc tcggaacact ctgtttgtgg 240

cttgccgcct ttctttcttt ggctgtgtgg acctttttaca gcttctgatt tttctcgcat 300

ctccagggag ccggaacaag cacctgtttg taccgatccc tttttcatct tttcctgatg 360

aacggcttgt attccgaata aatccatctc gcgtgatgat ggaaggaacc tgatttccag 420

aaataataat tcagagtgtt tgagacgt 448

<210> 3858
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316115c11b1

<400> 3858

cccattcgtc cgcccacgcg tccgggcttg tacctttac ttttatttac agctagtaat 60

aataacgaaa gaatccagcg ttttctttgt tct 93

<210> 3859
<211> 300
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316115d02b1

<400> 3859

tgcctttgta gccggtggtg acgttcactt cgctgaccag ggccaaggcg gagtgaccta 60

tagcagagca gtactgtcct actatagtgc agccggtgcc aagtggcggc agcgctgccc 120

caatccacaa taattgctag tgctactggc cggatgtctg ttgcatctct ggtcaaatct 180

gcatgatttg gcttttagtt tggaattgca tgtgatgtgc gtgtgttggc gattatgtaa 240

agttctttgg gggtgtgatc gtttgaactg tctaccaata aaaaagctct atttacattc 300

<210> 3860
<211> 110
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316115e12b1

<400> 3860

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tgcaccatga atttactgca aataatagca aactggtaat ttgtttgtgc 110

<210> 3861
<211> 64

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116a05b1

<400> 3861

ctcttttctg tgctcgtgtc cctgccctcg atcggcaata tacaatacat gctggatttg 60

ttgc 64

<210> 3862
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116c04b1

<400> 3862

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gtccctgttg ctatcggagg ccctggtctc cacccaggag tgagattccg ctccgacatc 180

cagacacccg ggctcgccaa cgtcgccgcc accgtgatga acctccatgg cttccaggct 240

cctgctgatt acgagacgac cctcatcgaa gtcattgaca agtaaaaaaa aaaacactgc 300

gccctctgaa gccaaaattg ctgcagccga ttttgtcgct atagttttgg ggtgggtcaa 360

ggaatgatcg catcattgaa taatttgaga tttgccagca cgcttgctcg aactcatatg 420

taacattgag aaaggtggat tttacttgc 449

<210> 3863
<211> 214
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116d02b1

<400> 3863

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ctggtggagc agccgtttgc cgggggggcgt ggcagcagac gcatacaaaa gcaaatataa 120

gatagagcca aaaggtataa aaaagagaat aaaatacaca aaaaaaaaaa agaagaaagc 180

cgtaaaagaa aaaggaatac cacagaacgg tgat 214

<210> 3864
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116d04b1

<400> 3864

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atcccactcg gaccacgact gtgactcggg ctctgactgt gatggtgatg acgctaactc 180

aaagggcagg aagaagaagc cctcagctcc agagaagaag ggagtcctgg gaggtaaccg 240

gtaagaagaa cgacaagctg cctaaagtga caatatatat gggcgtgcga gcttccatcg 300

cccttcaagt cattacttgc ttcaagatca tgagagcgag cttatcttta aacatgtatt 360

agccataaaa ctctgtacgc gcatgcactt taaagttatg tatctggcta tagcctacag 420

acaatgaagt ccgcatac 438

<210> 3865
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116f05b1

<400> 3865

cccacgcgtc cgcccacgcg tccggccgct agggtgttcg tccacacact cccgccgccg 60

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gaagaagagg atgaggaggc tcaagaggaa gcgccgaaag atgaggcagc gatccaagta 180

ggtgccttgg agggagggga agcatcatct tacatccagg cagcggaact ctgagggatg 240

atggcattgt ccgagtgatt cctgatttgt tttgcggttg tggctgtgga agttgcttta 300

cctgtgttta gctgtttaat actagtctgg ctatgttcca ggactgagtt ttatgtaatg 360

taaggattat atgtgtttgt gactgaattt tatgcaccta tt 402

<210> 3866
<211> 441

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116f11b1

<400> 3866

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gcttctggta atggtggcgg cgagggcgga ggtaaaaatg gtggaaccgg cggtggtaca 180

tgcagtggaa actgatacgg tgacgcaaac ccttgaagcc tattcgtgca atcaaaacag 240

agcaagagcc caagctattg gcgttcgctt atttctatgt gcatttgttt tgctcttacg 300

tttccatgta ttagggacaa ctaataaagg gcttcattac ataggtgtgt gctatgtaat 360

gcggagacta tgtattatct aaatgttgct ccaacctttc attccatact tactgtgtcg 420

atgagataac acttaactat c 441

<210> 3867
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116g07b1

<400> 3867

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tattctgtat tatatttgga catgtataaa atactaatgc taaaatctat aaaggggtag 120

tagtgaagca ataaactacc ctcatgtttt aaacaacaaa tctgttgaga gcaccgtttg 180

gctattgagc ttctttttt 200

<210> 3868
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316116h10b1

<400> 3868

gcggtgtttg gtaatggcag gtcctaatta aacatgatca tgagatagtt acgaagaaac 60

aacaccacca gtaaatattt tctgagttct ttt 93

<210> 3869
<211> 353
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316117d02b1

<400> 3869

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tggacgtctt cgagttcctc ttcggctacc ggctgaggtt tggcctgtgc ggcgtcgaca 120

tgggcgacgc ggcgaggagg aggtacaaga ggagctcggc tcgctggtac tccggcttcc 180

tcgcgggcgg cgagctccgg ccggctgctt ggccccagaa gtcctacgtc caatgagaaa 240

acaagagacg ctcacatgtg gctctccggt ctccacgtct ttgttttcct caagctgctc 300

tgcaggacga aaatacctgt accgggttca cgtgcgcgcg cgcgcacaca cac 353

<210> 3870
<211> 202
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316117d10b1

<400> 3870

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gtggacggtg cgccggggct ggacgccctg gcgtgccggc gtgtgctggt gtgcatcggc 180

gagggcgacg tgctccgcga cc 202

<210> 3871
<211> 238
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316117e10b1

<400> 3871

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ctgtacctga ctgatagagc taagcatgat gaaatagctg ctgaatggac attgaggttt 120

gcaagatagg gagtcctttg tgtaactaaa taagaaaaat tgactctgta aatgaataat 180

cttgtatgta tcctgagata taagttggaa aatgaccaat acattaatct gagttgtg 238

<210> 3872
<211> 168
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316117h10b1

<400> 3872

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caccggcgca gtcgccatgg gtaaggtgca cggatcgctg gcccgagccg ggaaggtgcg 120

gtgccagacg cccaaggtgg cgaagcaaga caagaagaag cagccgct 168

<210> 3873
<211> 115
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118b01b1

<400> 3873

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ggccgcgtcc tgcccgcccg gacgcttccg ggccgtgtcg ccgtctacgg cggcc 115

<210> 3874
<211> 138
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118b02b1

<400> 3874

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gagcggcgcg gatggcgact ggcgccaggg agctctgtgg cggagcgcgg ctgggcgccg 120

gcacggcgag cagggcat 138

<210> 3875
<211> 161

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118c10b1

<400> 3875

ttttgctctt gaaatgtatt ttccaacata caccttattt tctagttttg gaagcttttc 60

ggtcacgctt tccggtgcaa atttgcaaaa cccggtaaaa gtagatgtaa aatgtgtgtg 120

gattgcagag ggctctatgc ccatacaagg aataattcct g 161

<210> 3876
<211> 205
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118d07b1

<400> 3876

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cttattagtc catgtcctag tactattcaa gagctctctt atcatctcta atggacagag 180

taacatgatg tttgtttttt cggcg 205

<210> 3877
<211> 91
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118e04b1

<400> 3877

gtttgcgtct gcttagctgg agccttgtta cggtgtgtgt cacagtgtca gttccaccta 60

tgatcgatcg gtatcctaac cggtttgcgt t 91

<210> 3878
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118h02b1

<400> 3878

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aaccgtgccc ctggacaagc tttcctgtct gccgcataat ctagcagaag tctatccgtt 120

ctatcgcaac ttattttacc gtgtggaact tagattccaa gtgcctgtgg tgctatgtta 180

ttttgtctga atgttgtgtc gaaccttgtt atggaagata ttatctattt tgtgatgatg 240

gtactaatat gaatggcctg ttgaatcaaa aaaaaaaaaa aaacaaaaaa aatatcccat 300

t 301

<210> 3879
<211> 68
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118h05b1

<400> 3879

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ccagttat 68

<210> 3880
<211> 350
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316118h10b1

<400> 3880

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gtggggttac agcaaccgcg ttgtcgatct gatccgtcac atggccaaga ctcagtagag 120

cgttctgatt tcctttggtc agaggtgtcc ctgctttgtc tatgcgaaga ataaatgtgg 180

atggtgtcgc cagacgacgc ctggttcatg ttagttggac atgagttacc ttctgttttc 240

cgcatcaact agtacttctg taatggagtt gctaatcaag tactcttttt tggttgtggt 300

ttgtgaagat tatataaatc gttcagtcca gtacttgtgt ttgcctgaat 350

<210> 3881
<211> 307
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316120a02b1

<400> 3881

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acgatacccg ttccatcatg cgaaacgtaa agggccccgt ccgcgaaggc gacattctgc 180

ccctccttga gtctgagcgt gaggcccgcc gtctgcgata aactgcgcat gtggggtaga 240

acatggtctg cgacgatgag cacattgaga accagttaga gcaaaataaa atcgaccttt 300

ccatgtt 307

<210> 3882
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316120b04b1

<400> 3882

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gcagcgcatg aacgtgttat tattttgcaa ttcttatttg gtgttttgtg ctgcgagtgt 120

tgtataatat gccttatttg atgacatttt tacttcacat tcaggtaatg tgttgtcagc 180

agactgaaat ctgtaataaa tctgctgctc tactgtttgt ggagtgttt 229

<210> 3883
<211> 332
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316120c09b1

<400> 3883

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cgaaagaaaa aaaaaggttg ccgattgctt ctgtttcatg tttttatgta tttatagaag 120

aaaagaaagg gaacacgacg atttgtagaa cagaattggt gttgtacata ggagcagagc 180

aacatctgct atattagtta caggggagag atgtccactg tgattctgaa tcgagcattt 240

ggaacctagg tgatgaattg ctttgttggt actagcaaac aatgtgtttg atgatttttg 300

attcatttaa ttcaatttgg cctggtcttt ac 332

<210> 3884
<211> 221
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316120f01b1

<400> 3884

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gccttatcct ctccggaccg gagcgagcga gcgccccacc gctccctgct ccccccttcc 120

tcccgatggc gtccctcacc accaccaccg cctcctcgcc ggccgccctg cccgcggcgg 180

cctccgccgc cccggccacg gcctcgtccg tctcgcccac c 221

<210> 3885
<211> 238
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316120f03b1

<400> 3885

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tctaacagac cgagagatgg caaaggcctt ctctcgtatt ctttttccc ctttttttga 120

ccatgtgtaa atttgctgcc tctttttcat gtatttttga gcgatgaaag ggcaattgaa 180

cccaaaaata tggtggacaa gtgattaatg aatcaaggag attcatcatt tttttgtc 238

<210> 3886
<211> 128
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316120h12b1

<400> 3886

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ctctttcttg attcccaaat atgtaaacct accaaccttg tattcttggc ctacatggct 120

ttgccccct 128

<210> 3887
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079d09b1

<400> 3887

cccactcgtc cgaatccgcc catccatccc cggcggctcc aggagggaca tcgcagccgc 60

cggcaccggc agcggcatgc cattcacatc gccctcgcgc accatcggcg gccccctcag 120

gtcctatccc aacttgcggc cgtcgaccgc ggcggccagg ccaggcctct ccttccaccg 180

gtcccgagac caggggacac caaccccgtc gtccagcgct gggtgcctca gatcggcatg 240

cctcctcccg atgcagaact gttctgggaa tactactgct aatgaatgtg tccaatcaag 300

ttcatccatg tcaaactcta tcaactagaa atagagttgt gtcaaagaga aggaggagtg 360

cgtgcagggg gagtggcggg tcaaggtgct ctcatcggag ccgctactga ccggcagatc 420

caggcgcacc ctccccgtgc gcgcaggggg gtgacaggac aacgtgcgc 469

<210> 3888
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079d11b1

<400> 3888

cgtacgcttt ttttgttcga tccatgacag ggagggcttt cgcggggccc agtagagcct 60

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ggagtccacc ctccacctgg tgctcagcct caagggtggt atgcagatct tggtgaagac 180

cctcaccggc aagaccatca cgctggaggt ggagcaatat gacaccatat acaatgaaac 240

ggcgaagatc caggccaagg agggcatact accggaccag cagcgactga tcttatgctg 300

tgaagcaggt cgaggatggc cgcactctgg cggactacaa catccagaag gagtccaccc 360

ttcacttggt gctccgccta cgtggtggcc agtaagt 397

<210> 3889
<211> 338

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079d12b1

<400> 3889

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agagagagta aaaaaaaaaa agaaaaaaaa aattgggggg tcgtttttga ggatccatgt 120

ttgggtccgc gttcatggga ccctatttgc tcttttatgg ggttacctaa gttcaattct 180

tctggccgtt gttttggggt ggtttttttg ggaaaccctt tgtgttcccc cggttgatcg 240

ccttgttgtc ctttttttttt gtggcccgtt ggtgtattag cggggtggcc ctttccgatc 300

gtttttccga acagttgcgc ggtttgcctg gttttttg 338

<210> 3890
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e01b1

<400> 3890

agaggggctg gagcgccacc gcgaatccca tcccatcccc gcaccgccgc cgatcccgcc 60

cgcccgcccc tccgcagatc tccccgacat tgcccgctcc ccggccggat tcgcccagat 120

ccaccgacgc cgcgcgcggt gctcccggcg gcgtggcccg ggccgtctga tcggggaggc 180

tcgatctttt tggttggtgc tgttgtctgg agggtggtgg cagcggagat gggcgtcgga 240

ggggagaagt tccagctggg gacggtgggg gcgctgggcc tctccgtggt gtcctccgtg 300

tccattgtca tctgcaacaa ggccctcatg agctccctcg gctttacctt tgctaccacc 360

ttgacg 366

<210> 3891
<211> 80
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e02b1

<400> 3891

aaaaattttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa 80

<210> 3892
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e03b1

<400> 3892

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gccacagagt cacagtagca ctagcttgag ctagccacct tctgccactc cgggcatttt 120

cttgcatcca cgaaggcaat ggccactgct gatgtccaga acccggcggt cgcgctgacg 180

gaggaggcgc ccgcggtgga gacacccctg gtcgccgagg aggtcgcgaa gacggaggag 240

gcccccacgc cggcggtggc cgaagtcgaa gcgcctgctg cccccgtcga ggttgaggag 300

actaaggagg aggcgccggc cgccgctgag accgaggaga ccaaggagcc cgagcccgc 359

<210> 3893
<211> 383
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079e04b1

<400> 3893

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gagccagaca caacgcgcaa gacccccgac tacttttttgt aatcgtggag ttgacttttt 120

tttaactgtt gtgctgctgg tgctcctatc atgcgcagca ctgcctggct ggatctgtag 180

atctctgtcc ttagaaaatg ggatatcttg agctgagttg tgtacccccc tctcattctt 240

ttgtttggag atattggatg ccgcttttta tgacctcata ggacatgtta aaaggacatt 300

gcatgggtct gttntttgaa tcttcattct gcattatgtt cgagacagag aagggaagct 360

ggaatagaat cgtctcgtga cat 383

<210> 3894
<211> 346
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e06b1

<400> 3894

cggcaagaac caccaccaca agtgagtgaa cgtctgatca tggaatggca gcgagagatg 60

gcaatgaggc cgctcgttgt cctggctctg gccgtggcgc tggccggggt ggctctgcta 120

gggggctccg cggagggggc cggccagtgc ggcaggtcct cccccgaccg gatggccctg 180

cacatggccc cgtgcatctc ggcggcggac gagccggact cggcgccctc cagcagctgc 240

tgctcggcgg tgcacaccct agggaagagc cccagctggc tgtgcgccgt catgctgtcc 300

ggcaccgcca agatggccgg gatcaagccc gaggtggtca tcacca 346

<210> 3895
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e07b1

<400> 3895

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ccttcgcccc cctcacatta ctacgaattt acaagcaagc atggatcact ccttcttggg 120

tttgttgctg tcaggggcgg cggtcgcttc ggattgaggt ggtgcgccgg cgacgtcgcc 180

ggtcatcatc ttcttgaact cgtcgaagcc gacgcagccg tcgccgtcga cgtcgacgga 240

ggcgatcatc ttctcgcagt cctcggtgct gcacccctcg ccgatgcggg cgaggacctt 300

gctgagctcg gcgacggaga tgcggccgtc gccgttgatg tcgtagatgt cgaaggcgtc 360

gcgcagctcg gcgtccagct cgcgcttccc cg 392

<210> 3896
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e09b1

<400> 3896

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tgttcacgtt cacgttcacg ttcacgtccg ttgccttgca cccacccacc cctcgacagg 120

aaacaagaaa gagaaggcag aaaaaaagct cgtctgccgg acatggagag ctcctcctcg 180

tctctgttgc tgagttcgta taccggcggc aacaagaggg ccagggaggc cgaccttgac 240

gtggcctcat ccgccgaggc ggaggccgcc aagaggatac ggcccgagga cctgctggac 300

ctgctcgacg atgacgccga cgccgcggcg gccggcgacc tggcctccgt catgcgaagc 360

ctggaggagg agatatgcgc cggcgacctg gccgcgccgc agccggagct gggcttcctg 420

ctcgaggcct cggacgacga gc 442

<210> 3897
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e10b1

<400> 3897

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cctattatag gctagtggta gctccagtgt ctgttacaac taagacgacc tcccaattgc 120

ttggccaagc acctcaaatc acattaagtg aaaatgcgga gctctctaat caggcgacca 180

cctatgatga tgttcagtca tcgggtgcta gttcttttat acctatgtat aatcgaactt 240

tttgtagatt gaatcggttg ttctatacga acaatcctgg agatgctttg gtctcacgtg 300

ctcctgatat tgcaaaattt caactggaaa tagatagttc atctggcaac tttggtgcaa 360

catcttctct ccatagatgt gcatctgatg acttccattt ctcggtttgg ttaggagttc 420

ccacgatggg atggttacaa acttaaagtc caagtgacta taaaaga 467

<210> 3898
<211> 523
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e11b1

<400> 3898

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agcaattcag gaatgaaggg tttgatttaa ctcacagtcc tgaatttaca ggatgtgaat 180

tctatatggc ttatgcagac tacaatgacc tgatggagct tactgaaacc attttgtcgg 240

gtatggtgat ggagctgact ggtagtacta agataaaata ccatgcgaat ggagctgata 300

accctcccat agagatcgat ttcacacctc cttacagaag gatagatatg atgcaggcac 360

tgaaatctat cgctgggctt gacattccat cagatttgtc aagcgacgag gctaacaaat 420

acctcgcgac aacgtgtgag aagtatggaa tcagatgctc gccgactcaa acaacagcac 480

ggttgcttga caagattact gggcatttgc tggaggccac atg 523

<210> 3899
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079e12b1

<400> 3899

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tgagctcatg tgctatgcaa gtaaggatgc accctatgta ccgccaatat ttggtccagt 180

atttgttcat ggatcgaggc tataattcat ttgtactcat caaaaaaaaa aggagcaaaa 240

aaaaaaaaaa aaaaaaaagg agctagatg 269

<210> 3900
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f01b1

<400> 3900

atcatcttct tataccaaag cccatcttct tctccttgaa atctttttgg gttcacagat 60

ttggaggatg tcttgcaact gtggatccgg ttgcagctgc ggctcatact gcaagtgcgg 120

gaagatgtac cctgatctga cagagcaggg cagcgccgcc gcccaggtcg ccgccgtggt 180

cgtgctcggc gtggctcctg agaacaaggc ggggcag 217

<210> 3901

<211> 216
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f02b1

<400> 3901

cccactttgt ttgcgccaaa ctttgggttc ggaaagaagg cacaggtgtg aagacaagaa 60

cgagcaccac ccgcacatgt tagaggaggt gtgtcaacat gggtcaatgt tttgggttgg 120

ttgtgtttta cgcatgaata aagcaaaatg ctgtgattct gtgtacggac gagccgcgga 180

tgcgccttgc ggggaggagc agaaagggat acagaa 216

<210> 3902
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f04b1

<400> 3902

gcgctttatt gataatggag aaggaaggga tcggcggtct gtacaagggg cttgggccca 60

gctgcatcaa gctcatgccc gcggcgggga tctcgttcat gtgctacgag gcctgcaaga 120

agattctggt cgaagccgag gagtagagcg aagtgcgcca ccggtgtcgg gtccttaaag 180

aagaggcggc aggaggatta agcctcgtct tcctttctat caagaaaaga aaaattggat 240

gatcaactac tcagcagaag cttaggtcaa aggtatttga gacacgtctg ttagatgatg 300

aagttttggc ctctaaatta gttctgtgtc cgagttgaaa tccataaaca atattctgac 360

tggcggaagc agttctgtca tgctact 387

<210> 3903
<211> 209
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f07b1

<400> 3903

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gacctgcagt tgtatcctgc tgccataacc ctctctgtct gcatatgtga gagtcaacag 120

tccatgtacc tgcagaagat ttcctagctg tcagtcgcgt tgaattctat tccttaccat 180

cgtcgtaaat gaagttttga cacccgccc 209

<210> 3904
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f08b1

<400> 3904

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gtaggtagcg gccatggagg ccgccgcggc catccggagc acggccgcgc cgcggatgcg 180

cctcgcgggg aggagcagca ggggatccgg cgccgcggcg gcgcgcgcga ccccggccag 240

ccacagcgac tggcagacgg cctgcgccat cctctccagc accaacgaca ccccctcccc 300

gccggcgccg aaggtgaacg gccagaacaa caacaacaag ctggccgcgc cggccatccc 360

cggctccgag gacgccgtct tcgcctggat ctg 393

<210> 3905
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f10b1

<400> 3905

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acaagaagtt ggaagaagaa gacaaggaaa gaaaaagatt aaagataaaa actgacaaga 120

tagcaaagtt ttttgcggtt aatatttaca aataaaaaaa aaaataaggg gggggccttt 180

tttggggttc caggtttccc tccgcgtgct tgggagtttt ttttttttt ttgggggccc 240

ttaatttaat ttctttggcc gtggttttcc accgggggt tggggaaacc ctgggggttc 300

cccaatttat tggcttgggg gcacttcccc tttttcccgg ttgggttatt accgaagggg 360

cccgaccttt ttgcctttcc caaaattt 388

<210> 3906

<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079f11b1

<400> 3906

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ttgcatcgtg tcttatttaa gcattgaaac tatcttcatt tgatttctct gtgctaaaca 120

aaatttttg agataaatct ttacaaataa aagaaaagtt aacatgggaa agaaacaaaa 180

tcttgatttc agaaccatga ctactcaagt gttgaattgg gccacctgtt tggtggaaca 240

agaaactatt cctcctatcg gccatcaaag actgttttta tcgggtaact taaattcaat 300

taactgccca ctggttatac ttgaagaaac tgggaaaacc c 341

<210> 3907
<211> 333
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079g02b1

<400> 3907

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cccttcttca tatggcgcct cattaccctc tattctggtg tctgtgagtc tgtccctctc 180

tcttcttgaa ccctagaaca caagcagatc tcaaatccta actctctctg ttattggata 240

ggttcatccg ggttcagttt tgcagatctg tagcaatcaa gtcctaatcc ctttctgctg 300

cttcagattg ccagtgttgc acgagcatgg aat 333

<210> 3908
<211> 224
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079g04b1

<400> 3908

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ccaggcaagg agaaggatcg acgaccatcg tggtgaagac aggtaccggc gacgagtttc 120

aatgtggcaa gaggaatatt acagtggctg cgaagactag caagttgcgc aaggaacaca 180

ccggcgccca cctgacggtg gaagcactga acaaacttat tttt 224

<210> 3909
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079g07b1

<400> 3909

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ctgtaagctg taactatggt gaagaaaact ggttgctatg cttgatatgt atagggggga 120

agatatatgc ggaaatattc ggtccattta ctacataata tgatgatact gtaattgttg 180

gctccaataa ttgatccata ataaataatt aaacaacctt tgagcttaaa aaaaaaaaaa 240

acaatccaat attaag 256

<210> 3910
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079g08b1

<400> 3910

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caggccattc ctggcggcat gcctgaagaa gctgcctgac aaagaagcta gagaaaaagc 120

taaagaagta caccgtgttt ggcacgggca tatacagaac ccagagcgga atcccttcaa 180

gactgtcaca gttgaaggta taccagagga gattattgat gtcaatgatg acaagctgca 240

tggcctatgt gctgcatggt gtgaaggggt gcacaaggct gtggacaagt gtttggtaga 300

aattcaagaa agtggtaagc tgagagatag aaacattgag cccgacgtct ggaattacaa 360

gtgcaag 367

<210> 3911
<211> 323
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079g09b1

<400> 3911

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ctacatggtt gacgccattg atgagtatgc cattggtcag ctcaaggagt ttgagggcaa 120

gaagcttgtc tctgccacca aggagggtct gaagctcgat gagagcgagg acgagaagaa 180

gaagcaggag gagctcaagg agaagttcga ggggctgggc aaggtcatca aggaggtgct 240

gggcgacaag gtggagaagg tcatcgtctc tgaccgtgtt gtggactccc cttgctgtct 300

ggtgactggc gagtatgggt gga 323

<210> 3912
<211> 495
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079g10b1

<400> 3912

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atatggaagc atgaatagtg caggagctag caaagctgcc gctcgccgta tggaacacca 180

gtaccaccgt gggaaggtgg aagcacaaat agaagctgct ctttcttcct ggccgagtat 240

ggatcaagcg tctcggtcat tagcttggca gctatgcaac atgccgtctc gccagcacaa 300

cttcaaccca tctgcacagg ttcagcgacg ccccccttcc catgtcctct cgatggcagg 360

attacctcga tctctggtgc agccgtggcg ttctggttct tttttctcgc ttgcagaaga 420

taagctttct aagcacaaga ctcttcagct tactgaaaac tttcttaccc acaaaacttt 480

ttgctgatat ctaaa 495

<210> 3913
<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079h03b1

<400> 3913

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accgctggcc ctcgcccgcg acaagctcga cgacggatcc ggcgagcctt tcttcgtcct 120

caacagcgac gtgatcagcg agtacccgtt cgcagagctc atcgagttcc acaagtccca 180

tggcggcgag gccacgatca tggtcaccaa ggtggacgag ccttccaagt acggcgtggt 240

ggtgacggag gaggagaccg ggaagg 266

<210> 3914
<211> 251
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316079h04b1

<400> 3914

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ctgtgatgca gtgttatcgt ttgcatgttt aaacttctgc tggtgtgcag cagctttgat 120

gaacttcaga ataagtgagc cctgcnaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaataaaa a 251

<210> 3915
<211> 527
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316079h07b1

<400> 3915

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atgattcaac agatgcaacg tatctagatc ttttggtggt tgaaatgcta tgaagtctct 180

tcagtgtcaa taagataatc tgaatgttct tcatccaact tccagctttc ttttttgtgt 240

acaattccaa agtagcctgt ggtttctctg gagcagcact ggagttgaaa tctccatcgt 300

gatttaaagg aggcggagaa tttttctcta tctttagggg ctttatgtac attcataatc 360

agtcgcttta cattacacca ttttttgcc ctattatagg aggctgattt gaaactgcac 420

aaatagtatt gtgtcaattt tgagttgcct cgtgccatat tgcagcactt tacccgtatg 480

gtgtgtaata cttcctccgt tcactattat aagacgcttt gattttt 527

<210> 3916
<211> 548
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a01b1

<400> 3916

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gcgcagaagt ccaagatggc gagggagagg aacctcgaga agctgaaggg cggcaagggg 120

agccagctcg aggccaacaa gaaggccatg aacatccagt gcaagatatg catgcagact 180

ttcatctgca ccacctctga agcaaagtgc aaggagcatg ccgaggcaaa gcatccgaag 240

agcgagctcg tccagtgctt ccctcacctc aagcagtgat atctgcccaa tcagacagag 300

agagagataa aagagagaga gagagagaag ctgtcataat ccacctacta ttatcatgtt 360

ccgcaatgac tgattgttga cctaagcttg gggtctgaac tcggtgtgct gctgtcccgg 420

ctgctttggt tgtgtgccca tctactatgt aatcgtcctc tatcagcctg ttgtgctaca 480

ttatcttaat cctctgtgga tttgctcctc gtgcttagtc agtatgctgt cgcaaaatca 540

tttttttt 548

<210> 3917
<211> 219
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a02b1

<400> 3917

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tatgggtgag ccggagcggg cgcgcaccat gatgaacaga gtgccgctga tgcagctgga 120

tgaccagggg gagtagagcg gcgaacaaat gacgtaagac tggtcttgca gcctcaaccg 180

caatggaagg aggatgccat gactactgat gaactgact 219

<210> 3918
<211> 560
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a03b1

<400> 3918

ggtcgacttt ataggatcca agctcccaaa tggagaaaca ttgccttccg ctcattgccg 60

agagcggtat ttttgtcgac atgggggga attttatcgt gctggatcgc ggttgaatat 120

ttaatgtatc ccaggattga ccgtggggag atagttgcta aatacaacac aaaatcctag 180

tctagttaaa gaacgaatgg taggattatc agaagatatg ccatcccaga gagctatttt 240

ttgaccctct tctttaagat cggcgatgag gaaaaatatt aggtcacagg ccgaagcacg 300

aagatgctat attcttatgg tttcctagcg agaattgaac atatttagtt ctcgagacgg 360

aatattgcaa gcttcactta aaagaacacg ggggcatcat aattgaattg ccccatgttg 420

ctcactttaa taaattgaca tgaacttgta acaatgcttc taaacagata aagtgactcc 480

gtcactcttg ggtcgccgaa gctaaccagg tctggcctac gggagaatag ggagtgacac 540

tatactgagg aacgatgcct 560

<210> 3919
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a04b1

<400> 3919

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gggagtttat ggcattagcc gctattggct caaggaacag gagagacatc tgagcgactc 120

cttgcatgta cggaattaca ccagggacat taccttgcag gggtctccct tgccggaatt 180

cttgcgggag gaatatgaac tatgggcaga ccaggaatgt ttgggtcatt atgtgttgca 240

tttgggaatt taccattcac cccaactccc tgtcgatccc cgggtaccga gctcg 295

<210> 3920
<211> 219

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a06b1

<400> 3920

tagacgtccc atagactaga agacgaacat gatcaccagc ctacgctcgt gggagaacaa 60

cagaaccacc atgacacgct gacacagacg aaagaggaac tggaacttct ggacggacac 120

attaaagagg agtatgatga cccgaggtct aacaatgcca ctggccgtct atatacacta 180

ctaaggctgg taaaacaatg tggttactga acataaatt 219

<210> 3921
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a07b1

<400> 3921

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tttttacact gaggctgatt aaagcaaagg gtcaataact cgaaaccaat ggcaggagtg 120

cacgttggga gttataagag cttgatctac tgggcaggtg ctacaggata gctgacggtg 180

tagaacatac agctcggata gttatatgag gttgttgaca aggaacttag ttgagatttc 240

gagatcctaa atatatttgt tgttcacata ttagagcaat tgagtgtatc atctcttact 300

gatgatcata ctctagaagt caactatata tgctgatgca tgctgagaga atgatctgac 360

agatgcgtta tttgagatca tcctatgttt cacttcatgg tcactgatga cacgtatggg 420

tagatggact ccgagaaagg accattagtt tcgacttta 459

<210> 3922
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a08b1

<400> 3922

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cgatacagcg tcagttattt ctgtagaggc aaacaccggt tggcatggtg gaaagactaa 120

gccatatcac tcgggctaac cctggaacag ttgtcgtcga ttgggatggc cagttaccgt 180

<210> 3923
<211> 54
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080a12b1

<400> 3923

tccacgcgtc cgactagttc tagatcgcaa tcatcattat ttactgtcat tttc 54

<210> 3924
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080b04b1

<400> 3924

aactacagct caacacatca tttgcaccgg tcgttcttga tcatcacagc aatggcctcc 60

accgacagct ggacccacga gatcgaatcg ccggtggcca gagcgcgcct cttccgcgcc 120

ggcgtcatgg actggcacac actggaccct aagctcgcac cgcacatcgt cgccagcgcc 180

caccctgttg agggcgaagg cggcatcagc agcgtcaggc agttcaactt cacctcagcc 240

atgcccttca gcctcatgaa agagaggctc gagttcatcg acgccgacaa gtgcgagtgc 300

aagtccaccc tcatcgaggg cgtgcgaatc ggtaccgcca tagagacgac cacctcgcac 360

atcaaggtgg agccggcgga caacggtggg agcgtcgtta aggtggagtc gacctacaag 420

ctgctgccgg tcgtggaggt aaacgatgag atcac 455

<210> 3925
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080b05b1

<400> 3925

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tttattgggc atcgggtgcg tgagtggaac aggatacagt cagaatctaa gatgctgctg 120

gttgacccat gatgagtatc gtgtagcaac aactggatgt gatcatggca cgttctgagc 180

cattgcgttc tatgtggagg agtctaagac aatagataaa ctgattgccg ccagtcaggt 240

agctgggtga acaacatgaa ccatgatgtt agcctgacgg agactaaaga agagctcggg 300

ctccgcatca aagtgcttaa agaggtgctt gatcactcga ggtctacggt tgccaatgac 360

gcgagttaca caacgtagag actggaaaca tcctgttatt acaaaattta atccgttaac 420

agggcataca tgt 433

<210> 3926
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080b07b1

<400> 3926

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ccaggaagac cgacgcggcc attgacatac tcaagctcat gtcctccaca ttcatgttcg 120

ccttgagcca agccatcgac ctccgccatc ttgaggagac tgtcagggat gccgtcaaga 180

gctgcgcgat gatgacgggc aggaagacat tgaccaccac caacaatggg cacctgcaca 240

atgcgcgatt ctgcgagaaa gacctgctgc tcacgattga ccgtgaggcg gtgtttgcgt 300

atgcagatga cccttgcagt gccaactacc tattgatgca gaagatgcgt gcggttctcg 360

tggagcacgc ctaggccaat ggtgaggccg aacgcgacgt ggagacatcc gtctttgcca 420

agcttgccgc gttcgagcag gagctccgtg cagtgctacc aaagga 466

<210> 3927
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080b09b1

<400> 3927

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tcgattcatg tatccgtgtt cggtgccata ttcatgcacc tcgtcgtgtg taattattcg 120

gtgtgtacga gaccgacgat atatacttac aagtactgtc tactgtgatt gaggtaaata 180

gctggagcgc tatcgataaa gcttcttacc tacctggcga cgggcaagaa actatcggac 240

tccgactgga gcctaactga acaaaggggc ggcccattta aaggacccgg atttccttcc 300

ccttccacgc cacggcatat atttatttta gtgcccccta attgcaaata tttggcggtt 360

tgttttcaac tttgagacgg ggaaacccct gtgttgaccc aaattaatag ggtggctgcc 420

aatcccctt 428

<210> 3928
<211> 282
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080b10b1

<400> 3928

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cgccggtcga tcgatcatgt ggtggcggtg ggggccgctg gcgcgcgccg tcgtggatca 180

tctgctcccc gcccgcgctg tcagaatgcc tgcatccgac gggctaggcc tctcctctgt 240

ctgcgtgcct gcccgcaggg caaactgatg aaggttgcga gc 282

<210> 3929
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080c03b1

<400> 3929

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acccgtaccg agatttttgg gctatggaat cgttgcccgc ccaattgccc gggttgcctg 120

tgtgttaaag gccacgcttc catggctatg atggccaagg aacccatatt attaattccc 180

cagcggattt accagattga cgttaagtta acaccggtag ttggatgaaa cgccagtttt 240

gtcccctacg aaagggaatt gggcgttatc ggttttcgca atgtcagggg agaaatggaa 300

gtttacccag tggtggactt ccaaacaaat tgaccagctt tgtcgttggg tggaggcccc 360

tgttcccatt gattttaaca tt 382

<210> 3930
<211> 594
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080c05b1

<400> 3930

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cggagccctt cgccggcgcc ggcgaagcag aggcgaggca gccggcgacg cggcggcgac 180

agcggcggca ccggcagatg ggggcgcgcg tcatggcgtg gtggcgggca agggtggtcg 240

cgcccatgcg ccgcgcctgc aggctcgccg tcgccgccga ccgcgcccgc gtccgcaagg 300

gcgagtgcgg ggtcctgaac cttcaccagg acgtgcagac gtgcggctac cacgacgtgc 360

aggtgatgtg ggacatgctc agctccgaca aggaggccgc tgccgccgcc tcggcgccgg 420

cgaagcagca gcagcggcgg tggaagaggc cgttctggag gctgactacg tcgatctggc 480

ccgcccggtc gccgtgcgcc gctgcagcgc agtgaggcga acggccttcg agctgtgcct 540

gggcatgtga cagaagcatt atcatgcacc ctgccgtgca tgctgtgctg catg 594

<210> 3931
<211> 557
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080c06b1

<400> 3931

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ccgccgggcc aggaggccta cccgcctcca gggtacggcg cgccgccgcc tgtcgccgct 180

aactaccagc agcaagcccc gccgcaggac tcgcaggacc gcggaggcga cggcttctgg 240

aaaggatgtt gtgctgctat ttgctgctgc tgcctgctcg acatgtgctt ctgatcacaa 300

gttcctactg ccaacaccag gaaatcccac gatgatctac tcactcagag ctgctcatag 360

ttgatcatgg ttatttctat tgtagtattt gtgctgtccg ggtggagatt tgtatgggct 420

cgttgtgcta gttaattttg catctggatt ttggcttcat tctgtatcac ggtattgtta 480

ttggcagagt cttagtctct tcagtttgtt ggtgatgaat aacacgtagc agtagcatgc 540

gagattcttg acgacac 557

<210> 3932
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080c07b1

<400> 3932

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gcctgcgaca acctgctgca gaacaagact gctgtcacca ccaaagagaa ctacggccaa 120

ggggagaggg aagcacaatg ctctaccgaa cagagaacac tcgatggcct tcaatcaccg 180

gagccgcact tccacacact ggtcaaccac acgagcacct accgagagct ctctgagatc 240

gctgagcaag cagagagagg agctgatatt gcaggggtca gggagctcaa cacactcaag 300

ggccacaacg aatccatggt gaagatcatg ggcctagaca tctacaccat caaccagaac 360

tacaccgtgt gaggagattg gacattgaac caacagacat gacatacgtg tcgtagctag 420

attggaacgg agctcccggt taatatttct tcggtgaatg aatgaaacat acatggctga 480

tctgacc 487

<210> 3933
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080c11b1

<400> 3933

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cggcggccta cgacggctac cgggaaccag aggataggca gtcggcgact cgtcgctgtc 180

agtaccagca ccaagagacg gcggagcacg acatggaccg ctgacgcgaa aggttgtgca 240

aaggaatgcg cgctgcttgt aggctctgct gcctcggcga catgtgcttc ggatcaaagg 300

gcgctactgg cgacctgaac aattaccacg acgagcaact gagcgagtgc cgctaatagc 360

agatcat 367

<210> 3934
<211> 488
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316080d02b1

<400> 3934

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catggattcg gagatccgcg ccatcatggc tcagtacatg cctttggaca gccaagaagg 120

cgcaaaccag caacagcatg tagcgcatgc tggtgatatc tgagaccaga tggcactgct 180

tttgctgagc aacacagaag cgtgcagggc agcgtatgta ttatcatcgg tggcgtcggc 240

tttacagcgc aaagatacgg tttgtacgcg aggagatttg atgtatgatt ctaggaagtt 300

acactgttga gaaccttcat tttgcgagac acgatgaaca gcataggcgg atattgacac 360

ggtttaccct accacctttg acggctctag tgtcgttgca tactactgta ctacgcacgt 420

gtcaacatcc tgtgaatact tggtgttcag actacttgcc cctgttatat ctgaataatg 480

ncgagcct 488

<210> 3935
<211> 550
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080d05b1

<400> 3935

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caaggagaaa tatttggctt ctgccgattt tctactaagt ctgacaatag tcagattctc 120

tttgttacag caatgcaagg tgattacggc aaaataatat cttggaatac aacctcatgg 180

acaagaattg gatcaaagaa agtaacccgt gatgcgattt cagctttttc agtctcgcct 240

gatggtacac ttctagcaat tggaactatt gagggaagca tcagtgttct aggtccaaga 300

gacatgcgag tggttctaac agttaaaaag gcgcatcttg gcattgttac tacattagcg 360

ttttctcaag attcaagggc cttgctgtcg acttcctttg actcaactac aagggtgaca 420

tcgactgaat cacccaagag cgatggtata agcctctggt ccatggtact agctattata 480

ctcggaattt tggtatatta ctatatgcag cacagagaag atctcttagc aatgttgcca 540

caatgaaatt 550

<210> 3936
<211> 502
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080d08b1

<400> 3936

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acccccgcct tattacatta gaatcaaaga atgaatgaat ggaagtaaat taagtacata 180

aagaatggta ttccgaaaag agtcgaatgc ttgcaaaatg gtgcaaccac acctaaaatt 240

ttgcttgcaa attaacatat gggtatcagt ctatcctgcc cggcccgata caccactctg 300

ttagcgctac ttcctacagt ttgagtacag ttcctccagc aatggcaagt taagaagaac 360

ctgagaactt ctgcaattgt atgatcaaaa cactgatgtc atcggtagac cccctggaac 420

ccgcggtttc gacaagcctt ctgcaggcgg tcatgcgaga taccttgtca ttgccgatgc 480

agagaggcct ggcgatgtct at 502

<210> 3937
<211> 545
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080d10b1

<400> 3937

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aggagcttga tcatgtagtt gaagaacttg aaaagattgc agttgttcat ctcctacagc 120

acagatcaat catttccctg atagggaacg tgcagagatc gtctctgatt cttgagaagg 180

cgttcaacgt tctacgcaga aatggtgtta atgttcagat gatttcgcaa ggggcgtcca 240

aggtgaacat ctccttggtg gtgaatgaca gcgaggcgaa gcagtgcgtg caagccctcc 300

actcggcatt ctttgagaac ggtttcttgt cagaagtaga ggaagcggac cttgcacaga 360

acatggctcc agtcctagta agctcgaatg gtgccatcaa tggaaactag tcgacgtcgc 420

ttttttctat ttccagcaat ggatgcgccg gtcttaggtt aagagggtga ttcgaccttg 480

gattatttag gccacctgag ctgattcatt ggtgttgcac gagcggtatt agagctatca 540

atttt 545

<210> 3938
<211> 71
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080d11b1

<400> 3938

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cacgcgcagg g 71

<210> 3939
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080d12b1

<400> 3939

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aggtggaggc ataggaggag gcgtgcgagg aggggaacga gggggaggat gtcatgcaga 120

ggaggctgat atacgactcg catctgcact acatttactc gcagaacaag gtcacgccat 180

gagtgtcgca tgcgctagtt cttacttcga ggtcataatg atgatgctgg gcattaagtt 240

gactcaagga attatatggc gacgattatt gttatcttaa tcatatatta ttgatgtacc 300

ttctgttgtt ttgactg 317

<210> 3940
<211> 153
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080e01b1

<400> 3940

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ggacaacgac tatgaacttg ggagaactga ccggagccat gacgtccaaa gggattaaga 120

ctgtgcatct aacagcagat gctacataat gag 153

<210> 3941
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080e03b1

<400> 3941

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gctccaggct cagatctggg agaacaacca caactaagtg aaatgttggc taattacacg 120

gcggaccagt gagcaaatta aggacatgtt tgagttagta gatatgcatc ctaatctata 180

aaataaatgg atcatatgtc atcccattga tgtgtgtgta atgagtgaat gtatttatac 240

cttctgaata gttg 254

<210> 3942
<211> 120
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080e07b1

<400> 3942

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cacgtgactg gctagaccct ggcctagccc aactgaaaag tctggccgca cagaaacctt 120

<210> 3943
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080e08b1

<400> 3943

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tgccggcggg ggggctgaag acggcatacc agcttatgac atcacgagca gtggtaggca 120

cggggcgagg gtgcgacgaa gcgtgacagt gacagctcgg tgcctgtgct gcacagatat 180

gcttaatgga ttaggggggct gggggaccaa catattgtgc aggtctatat gaatggcggt 240

aggaacacaa tgatcccact acggtcccgg tttgagacat atccaccagt gcataagtgt 300

gctatggaaa caatgcgatc tgccgctagc gctgtgcact gaagggttgg ttgggacaag 360

acggactgag ctcacaggca tgcatctgcg aggaggtccg atcagtcgtg cgtttac 417

<210> 3944
<211> 350
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080e09b1

<400> 3944

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agactggcgc aggcgtaatt gttcggtggt gtttatggtg actagcttca tctattagtt 120

gatcttttat tccacggctg aggtgcgctg aaaaggagaa atgtacaagc tattcacatc 180

tcccaaaaat ggttgtgggt acgatactcg atttaggcca cggtccagcc cctaaagtcc 240

aatttactaa tagccgaatc atccatacct tccatgggtg aatgcccata cggcagttaa 300

cgataccgat ggggaaccat gactactgtt cacccagtcc caaaccatac 350

<210> 3945
<211> 505
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080e10b1

<400> 3945

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gttcaacggc aattcagcac aaaaggggga aatgattctg taactgacag tttagatttt 120

tgtgatccgt tatgcgagat aaaccgatct aagcttaata ttttagggga ttgccatgcg 180

tgtggcgctg ttatttggtg catgatctga gaagcatgaa gtgtccatca aatctggcta 240

ggtgatcaac taagcattga tcagagacta tcaccaaacc aaatataacg tgagctcttt 300

gtatattcaa aaaaatggcg tttgggtgga gccagacgct aatcaacaag cttggcacca 360

gggagatccc tgggggggatc agaccgttac ggccggacaa ctgtggcagt ttgccccaga 420

tgcggctcta atggaggtgt ggaataccat attggacggc cccaaacgtg aatatcgaac 480

agtgcacggg ctatatagtt agatg 505

<210> 3946
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080f02b1

<400> 3946

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cgaagccttt ttgatgcttg actgcatgaa tcttcaggcc ctggacttgt aggcttttcg 120

gccgcaactg tgactttgtg agcaaacgcg cacgatgctc ttcgtagaaa cagcatccat 180

tacactcttg ccagaaggtt gcggggagac catcatttga tacagggact gcaaaagcgc 240

cattcttgcc catggactcg catgggatag aagaccagca cgtcagcaaa atcgagaatc 300

ctgctgcccc actacatctt ttgagtgccc acgagatcac ggctaatgcc atggcgactg 360

acgtagaata gctgagacta ttaatgggtg agagtagctg ctgttgcgct agactatcat 420

ctgagcgtgc aggtggagtt ttattacaaa tcat 454

<210> 3947
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080f06b1

<400> 3947

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aacatatttg atcaattaca atacatcaaa ttggtaggtt tgatcaaatt agtcatggtt 120

ggccatggac caaattagac acctgtatat gatactgatg tatcttgttc atatgcaaat 180

ccctttgcttg ggttgttgag accaaaaaaa aaaaataaat cagaagaaga aaataaagat 240

acaactgtaa gacattagtg agtttggtac aaaaactata aatgaatgat aaataaaaga 300

aaagaggggg ggggccgttt tagaggacca aagtttacga ccccgggatt gggaggtaaa 360

ttatttttt tagggtcccc taaattgaat taactggccg catgttagca aaaatttgac 420

ggggaaaacc ttgtggttac ccaattaaat aatcttg 457

<210> 3948
<211> 162
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080f08b1

<400> 3948

ttttgttctt gttgtgttta ttcgtatata gaagaagata tgattcaatt ggtgcaaaaa 60

aaaaaaaaaa aaaaaaaaga caaacaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaacaa 120

aaaaaaaaaa aaatctaata ataccacacc aaaataaaag aa 162

<210> 3949
<211> 202
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080f11b1

<400> 3949

ctatattaga gtgttcactt gcaagctccg gacactcaaa gatctctttg tatgttgtaa 60

acatatttga tcaattacaa tacatcaaat tggtaggttt gatcaaatta gacatggttg 120

gccatggacc aaattagaca cctggatatg atactgatgt atcttgttca tatgcaaata 180

ccttgcttgg gttgttgaga cc 202

<210> 3950
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080f12b1

<400> 3950

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cctcctcgcc ggaagcacgt gcgacgctgc ccgcaacctg gccgacacga cccccacggc 180

tgccgctccg gctgctaacg tagtacctgg cctgccggcc gagcccacgg acacggtcac 240

cctgatgcca ccaatgccgt cggtcaccct gcccaccgtg ccacaggtga cgctgccgac 300

catgccggcc atcgtcgtgc ccaaggaggt actgccaccc atgcccaagg tgaccctacc 360

caccgtgccg tacgtcacca tggcgcccat gcccgccatt gtcgagccca aggtgacgct 420

<210> 3951
<211> 220
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080g01b1

<400> 3951

tgctttttc ctagcatcct gctgatgttt tcactggagg cagcgctcct cgtcgccggt 60

cgcacctccg ccgtcgacga agtgggcgcc attctcctgc cgagccaagg ccaagaggaa 120

gcagccatgg cggcggccaa gaagaggccg tggaagtgct gtgaccaggc ggtgtgcacc 180

aagttcatcc cgccgatctg cagctgcatg gaccaaggtc 220

<210> 3952
<211> 297
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316080g02b1

<400> 3952

gcatcttggt ggtgctatac aagtcagtta taaatgatgg gcttcagctg gacatgaaac 60

atgcccgagc tcttgaaaag gaaagagctg tcaactatta caatggcatg acaaaggagc 120

aatttgcaaa tatgcagaag tttatacaag gccggagttc taaagcacca tcgaagttgt 180

agatgcggtg ctctgtgtgt atgtgccttt ttattatatg gctcctttta ttataaagct 240

tgtggaaatg tcaaattgct actcctatta ctggaagacc cacgttgttn tactttg 297

<210> 3953
<211> 137
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080g07b1

<400> 3953

aggtcttccg ccgtcgcacg caaccgaggt tttttagccg ctagccggct cactagtgga 60

tcatgggtta cagatgcgca attgtcatgc cggacctctt cgataggatc gagctggtgc 120

aactgacagt gccatga 137

<210> 3954
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080g10b1

<400> 3954

tttttgaaaa aactaaaaac attgccaagc acaacgagaa caactcagaa tctagggcta 60

ggaaatgaat ctcccgcagc ggcgaataca cctataccta cgttggtctt ccgactcctt 120

cttctcgccg cagttccggc aacccctgtc ccactaccgt aggccatccc cttggtcgat 180

gggcgctcaa ttttctaccc actgcccggg tcgctagtga acacccctac ggcgataccg 240

tgacactccg ggcccaagcc ctatgctttc ctgatacttt ttctgccgga tgccttctgt 300

ccattgcttt catactgaca gtgaagctcc tcatactccg aatttgttag cttgatacgt 360

atacccaact ctgtcattgc tgact 385

<210> 3955
<211> 63
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080g11b1

<400> 3955

cgggtgcggc cagaccagaa gatccaggtt tacatgatcc aacctgcgac gcgcttgcat 60

gcg 63

<210> 3956
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080h09b1

<400> 3956

cggaggcatt gacgcctctg gccgctacac gaaaaacggg tagtctaccg gcaatccgac 60

ccgggagtac acgatgaata aagccgcacc gttgacgctg ctacatgacc cctgggagta 120

cctgctcgcg caactgctgt gatcatgcga cc 152

<210> 3957
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080h10b1

<400> 3957

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gagaggttca tgtgccctga ggtcctcttc cagccattca tgattggcat ggagtcttct 180

ggaatccatg agacgaccta caactccatc atgaagtgtg acgtggatat catgaaggac 240

ttgtatggca acattgtgct caggggtggc gcaaccatgt tcccaggtat cgctgaccgt 300

atgagcaagg agatcaccgt ccttgccccg agcagcatga agatcaaggt cgtcgctcca 360

cctgagagga agtgtagtgt gtggatcgga gggaacattc tagcctgact gagcacttta 420

caacagatgt ggatattcaa ggacgagtat gacgaggct 459

<210> 3958
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316080h12b1

<400> 3958

catcaaactg tccaccatgg tgcggaaaaa gcgcgtgagt actcgccgaa cggcccgcga 60

gaaaaccaag ggccagttat ataccgggga ccacacgata aacgcccgtg cagaccgcaa 120

aggcattaca acaggcataa ggagcacgcc ggtgctgcca ccgtttctct ggggaggcgt 180

ccgtgactga gggtaaacac cttgattccc cacgatttga tggcagagca accgaacaat 240

gaggccatgg cgacgggtac taaacaagac gcgtagttcc gtgggccaga ggtgaaaaga 300

ggagctggtt gatacgaggc ctattgtatt cactgccctt caatgtacaa cttcatggct 360

agcgaaaccc aatgcatagc ccgacttaaa tgcgcttgga 400

<210> 3959
<211> 214
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084a02b1

<400> 3959

ggtatgttta ccaaggttgc ggaggatgag gactaaaccc actgtctgtc gtatcgatca 60

gttataactc aatacatatc tgctgagagc atattgggaa gtcttgcttt agcttattgc 120

tatctactgt tcatgatgtt ccatgacttc ttgatagacg atttgagacg ctggatattt 180

tgttcaagcg cttgaagttt tgacttgttg tttg 214

<210> 3960
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084a04b1

<400> 3960

acccggcgac tacttggtat ccggagcggg tgctgaccat gagtgagtta ttaccgctga 60

tactgctgcc tgacc 75

<210> 3961
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084a05b1

<400> 3961

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ccttctgccc gccccgatat gaggctgctt cagatgcact ttctgggtgt gctgtagaac 120

gtcaatgagc acccgatggt cagacatgaa actgctgagg cccttggttc aattgcagat 180

catggaaagc attgcgcttt tggaggaatt ctccaaggac cccgatccca tccatgccca 240

aagctgtgaa ggagccctca gcatgctcga gta 273

<210> 3962
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084a07b1

<400> 3962

ttcttacatg cggtccttcc tggtgagcct agcctggggt tgtaacctct gggtcctctt 60

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aattgcttaa tgtagtgtgc gcccactgcc gatgatagca gaagaagact gccaccaacc 180

cgtgggacct cataactatc cgagatgtgc gcctgcctga tcctgaagaa gagattttcg 240

tcagtgtgca cgatctcaaa gatgcgctag gtcacccgaa ggatcatgtt gacagtgtcc 300

tacg 304

<210> 3963
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084a09b1

<400> 3963

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ttatctctcc ttgatgaggt cacctcagaa caatacagca ggaccacggt cttcaacgtc 120

cattgtgtgc tatccgagga gttccctaac 150

<210> 3964
<211> 197
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084a10b1

<400> 3964

gctacgtgta cggtcgacct tattttagtg ctgaggagag atctataaga gaagattctg 60

ctgaaggccc accacaaagt gagcaagaaa aaaaaacacg gcttggcgtt gctctgctcc 120

ccctttgccc ccctgcggat gcttcgcttc ctttttgtga tcttgggtcg gggtctcctc 180

tctctggccc tgctcct 197

<210> 3965
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084a11b1

<400> 3965

ttgttattga ggctctaggt gtgaaaagtg ctcttctgcg ccacgaggtc gcttatgtat 60

taggtcagct gcaaaataag gctgcttcag atgcactttc tggtgtgctg aagaacgtca 120

atgagcaccc gatggtcaga catgaagctg ctgaggccct tggttcaatt gcagatcaag 180

aaagcattgc gcttctggag gaattctcca aggaccccga gcccatcgtc tcccaaagct 240

gtgaagtagc cctcagcatg ctcgagtacg agagatcagg gaagtcgttc gagtttctgt 300

tcctccagac tcctcaggtg cagcaggagt cctgagccca gcttcggata catactttga 360

tggacctgtc agagtcgacg gttcggtgtg gtagtggaca tgatgtctga atgaagtgtc 420

gtcgcccttt tccggttctt tttcgg 446

<210> 3966
<211> 173
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084b04b1

<400> 3966

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ctggcggccc acgctgagga ggggaacatc ccacaaccgg agtatagacc gccaggaggg 120

gacgatgatt ctcggtggag cacaccacga caaaggagga actgatcgcc cgc 173

<210> 3967
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084c01b1

<400> 3967

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ctttataaaa ataaaagggg ccaaagaagc ccataaaaaa aagaggccaa agaagccgac 120

caaataaaaa aataaaaaat aatgagaaaa aatagagaag ggacaatgct actatctctt 180

ttccacactt gtgcttcaaa atagcaccat gaccttcatg atagagagtc tcctatgttg 240

tcactttcat atactagtgg gaattttcct taaatacatt gtcctcgaat ccgactgttc 300

aaaaaaatat aacaaccata ctg 323

<210> 3968
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084c02b1

<400> 3968

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ctgctgccta cccctggaga gaagaggtgc gtgcaacggg ttttagcatg gacgtaaagg 120

gccattgtac tgctcagggc gagaccatga gaaaagacga actgatgagg cagatccatt 180

gcctgaccta acatctaaac cgggaagtca gactgactgg gactaaagaa gaacaggcac 240

tcccctgggc aaatctcaaa tatgagctgt gacgacacca tgcctaagat agacactggc 300

cgactctcaa caagaatgtg agtgtaaaaa cacttacgca acataactca atgatcttg 359

<210> 3969
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084c03b1

<400> 3969

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tcggactggt acaagtccga acacctcgta gggatcggca cctccggctc gctggactac 120

actgtaagag cacacacagc aaaagatgaa ccgagtgtac ccgccctggt cactggagga 180

acacatgatc cccgatgata ggcctgacct ctatcaaaga ataaacggcg ctcggtgtgc 240

tactggctta aaagaatctg gtggactcta ggcacctcta tgaaactgag ggtacgtatg 300

acagcactaa gactgataga acgcaaatct cgaacaaata atgcagatta ctaa 354

<210> 3970
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084c06b1

<400> 3970

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ctgccgatcc cctctgacta gaggactgtt ccggacaagg cgctaaggtc gactcgcgcc 120

atccatttct tgaggcgggc gggtcaatga cagaagtact gctgagccct cctacactcc 180

ttgctagctc aacagtacta accagatctg catctagtag gcaccagagg atcatataga 240

ctccaggacg gtgatctgcg agatgagtaa cttgactaga ggacgcacaa tcgcaccagt 300

tcaccggagg c 311

<210> 3971
<211> 235
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084d03b1

<400> 3971

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cttgctgacc gctatgggtg ccaatgcgag caacgcgttt gactcggagg cactgagaac 120

tcgatgtcta acagttgaga aacacacatc taaggaagca ctgagtgtcc tgctgtgctg 180

gctgggggaa caagcgtgcc cggaccacat actagcgctg acaaaaaaat aaacg 235

<210> 3972
<211> 390

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084d06b1

<400> 3972

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acaatggcaa gactgtgagc tcccccaagt taaccgcctt gcaggacttg caccttatgc 180

cagttggcgc acttgggata aggtccaata cgcccgccct gtacaacatt tcgcaacacc 240

tgaatggcct gtgtggcgag tgctgcgcgg gctcattaag cgcaataagt gcggcggttg 300

cgctcagtac gaccagtgcg tctcgctacc atcgtaaagg ccatatcgtt aagtgacttc 360

gctttctttc ctgccattat cgcccagttt 390

<210> 3973
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084d07b1

<400> 3973

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atcccccacg tctagtgggg ctgttattta tttcgggaag tggattggag tgttatgaac 120

gtggtttctg gacgagagac agcttgctga aggattattt gagagccgga gtgatccggt 180

cagcgttaca tctgtaaggc acttgcaatt gtactgaaaa ggctgagtat gtgtgatctc 240

atagaggaaa agctgaaaga ggagcttgat gacacgaggc ctaatatttg aactgggggg 300

cgtccgatct agagga 316

<210> 3974
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084d10b1

<400> 3974

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gacccggccc acacctgtga cggtgcacca cgagtcggcc ttcgagcgcg caccctgggt 120

catcgttctc aaatactggc acccaggatt aaagaaggcc atgcactcct gcccctacct 180

gcagcacaac ggcgtgaaga ggggcgctgg ccccggggac acaccagaac atccgccatt 240

tggggcactt gatgtaaaag agtacaccgt caacacgagg tttattcttg acccaacgcg 300

tggagctacc aggagctgac g 321

<210> 3975
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084e01b1

<400> 3975

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atccatcaca tcgctacgcc aaccacaaca ctgccttctt tgatgtcaac atgcgtgcat 120

tgtacggtct tatgggacca gtctatgtcg gcactggcat gtctgttccg ccgtgttgca 180

ctctattgat atgaccctcc acgctccaca gaacacggtg gctgctgaag ctgttgcttc 240

ccgaataagc gcacgatcaa gagcactggt tgctaaggta catatgatga gacacgggct 300

ctgctcatgg cagactttaa tgatgaggcc atgaacatgc caacatttac caagaggttc 360

ggtaactcaa acttgctcat taactctatc ccgattgccg agttacaaag gcgccctgtt 420

gctgatcacc ctggcgtcaa gaatggccgc ccttctg 457

<210> 3976
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084e03b1

<400> 3976

atgtcgttca ctgtgctact acatgtcagc ccactgctat gaacgtttca ttgatatttg 60

agttcatata actgaagagg aaagataaaa aagagacccc taaaatatat cgaacctatc 120

cgagataata ctcacgtaaa agaaaagaag aagcaaaaat ggggcggtgg aatatatgga 180

gccaaggttg ctacctcgtg gtttctagat aacaagtttt ctttaaagac aactaaatta 240

tattcattcg cgcagatggt tacacgttgt aaactggaaa aacactggaa ttgccgaaca 300

taatcgcata gtaagattga accattagcc tcaaccgggg gcttaagaaa taggccccaa 360

cctatggcct cttcgcaaca gaaggaggat cgaaactgtg aatgggactc gcc 413

<210> 3977
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084e09b1

<400> 3977

attggtttac agctacacgg acacttcagg gaaccctcgt gggttcctca ggatcaggct 60

ttgagtggct catatggcat ccacgtggta atttgataat tgcaggatca gaagactgta 120

acgtatggat gtggaatgct gaccacaatg cctttctgaa tacgtttgct ggtcacagta 180

gcacagtgac atgtggtgat tttacccctg atggtaagct tatatgtagc ggatctgatg 240

atgcaacatt gaggatatgg gaacccaaaa gcgcacaatg catacatgtt gttcggggtc 300

atggctatca tactcaagga ttgacatgct tagccattac tccggactcc caatcaattg 360

ttagtggctc ggaggataat tctgtgcaca ttgtgagcat aatctcaagc caggttgttg 420

ggtcattaga tggccacacc aattccatcc ggtgcattgg catctaatcg gggtacaact 480

gtgtggctac agggagcttt gtt 503

<210> 3978
<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084e11b1

<400> 3978

tggtactacc gcggaaacgc aacgggtaga tcacgaggat taaatcagca ccggtgctgc 60

tggccgcccc ccctgaggag cctcatccac cgacaagcgg taatcataag ggggcgcgcg 120

catattaggt cccatgagga ggcctccatg acggatgatt aaaagtgtgc ttcttcgggg 180

atcgatggta aaacaactgc acccgtgttt aacaaccgag ggcgaggaaa aaacatgggg 240

tgccccaagt aaaagacctt aaaaga 266

<210> 3979
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084f02b1

<400> 3979

cgcgagcggg cgctttagag gaccctggct cacttagacg cgcatgcgcc ggaatatgac 60

catgataggg tcacgtaaat gcaactcgct ggcccttgga ccacagcgtc cagactgaaa 120

caagcctggc gtgcctgatc atagatgaac tgcaggacat gctgctttca gcagcgggac 180

aaatagccaa gagagccagg ccgaccgtca ttgccaacag aagtgcagcc ttatttgcca 240

gagctacacg actatgttta taacactaag cgcagagagt gggatgtggt tacgctcata 300

ca 302

<210> 3980
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084f05b1

<400> 3980

gttatattta aagatacaga agcgtgagaa aacaaggaag catttaaaac c 51

<210> 3981
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084f08b1

<400> 3981

ttcttgcgtg cggatctgtc tcgtgggcct actacgattc agtgggtaga agccatgctg 60

ttggctgcca cggatgagga cccggtgatc caaaaggtca aagtacgggc tgttcgaggc 120

cacaatcttg tgatggggaa ctcactgaca cagaccaact agccctaccg tctcctctgg 180

ttgggttaac agaaggagaa gactatcatt cagaagaaaa atgacaaaga attatggaat 240

gatgtattgg agcttactga gacaaatcct acacaggcag tgaaactttg aggctgtgat 300

gaggattaca ctacagcggc tgacaacacg ggagtggatg caacaaaata acttggatct 360

aaagacgcgc aaagccggat gtaaagcatg c 391

<210> 3982
<211> 94
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084f09b1

<400> 3982

gctactccca cggacccgga gcgggagaac agggagaatt aaatagaagc gggcgtgctg 60

caggctgccc ctgatgaatc acgaagccga tcaa 94

<210> 3983
<211> 346
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084g01b1

<400> 3983

gtgtttttg gagagccgtc gcgctaggtc atgctggagt agttacgagc ggtgccgctg 60

ttacacttcc catatggggg ggaatcgatg caactctgtt ggcaggggat ccaaagaccc 120

acactgattc ttgcctggag ctgatgacca aagacgcact gagtgctatc cttgttttga 180

tgtttgaaca aatggagcag agaatcatcc tgacagcacc taaagaagat gtgcaactcc 240

gattacgaaa gatgaaagag gagtttcgtg acaaaaagcc caagctcaga gctgactgag 300

cctatacact gcgttgacta agaaaactct ggagacaacc cacata 346

<210> 3984
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084g03b1

<400> 3984

actcggtgtt ctttgcggat ccagagcgtg agcggaccat gtagaagtta caagcgtaca 60

tgctcgtgca tgccactgaa gagttcttgt atggacaaat gtaagaaaaa tggaccggcc 120

gggccattag aacgtctgtg agtgagaaaa tgacgaaaga cgaacacgat agcccgcctc 180

agctcactgg gtgaacaaca gaaccgggaa gacagactga aggcgaccaa agaagaactg 240

ccaccacgtg tgcaagatct ataagaagag ctacacgaca cgaggcctaa cattgag 297

<210> 3985
<211> 114
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084g04b1

<400> 3985

gatctatttg tgttttaaca caacagtgat gtagttgcgc gttgaaattg aagtgtacat 60

tcgatcgaaa aaaaaaaaaa aaaaaaaaga aaaaaaagcc aaaaaaaaaa acat 114

<210> 3986
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084g06b1

<400> 3986

tcggctatct ttgcggacac gcgtccggag ttcaccatga tgaatccagc tccgatctgg 60

ctgttgattg acccagttga gctcccgggc gcacaactgg cgcaaggatc gccgaggagg 120

aggactagag ctctccggtg gattccgtta cgaaggatga actcgagtgg acgtctacag 180

tcgttgggtg aacaaatgga ccagcatatc ggcctgactg tgacgaaaga ataactgacc 240

ctcctggtgg cagtgctgaa gaaggaactt gacgacacca ggcctacgac tggaaatgtc 300

cgctatatta caacctaaag actgttaaat agccgtcgtt tcacaactta atgactgttg 360

aaaaccatgc cg 372

<210> 3987
<211> 93
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084g12b1

<400> 3987

gctactcctg cggatacggc tcgtgagagc acgatgtttc agttagtacc gttgatgctg 60

gtggctgccc ctgaagagtt cgagtgcagt caa 93

<210> 3988
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084h04b1

<400> 3988

cgataatgct tgcgacttcc ttttgccacc atagcgacag ataaatagat caaatttggc 60

aacgtcatac acactgattg actggtaaag agctgaggac acccaacgta gtagctttca 120

aggctacccc atttgggtca gcatgggcaa cacccaactg gcctgcgctg atctggccaa 180

gcaccagttc tcccagttgt agggcttatg gaacgacttc tacaacagag gactaagttc 240

caacctggcg gtg 253

<210> 3989
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084h05b1

<400> 3989

cctatgcttt cggggctaac gcgggggcc acggtggaga ggaaccaagc ttagacccgc 60

gagaatgcca cccaagagct caacaataga ctcatgtaaa aaacaggaac agcacgcaac 120

cctacaacga tgtatctgat tgatccatga gggaacccaa caaaatcggc ctactgcaca 180

aacaatgagc tgctgctaac aaaaatctag cccaagcctg aacaaaacat caacgctaac 240

aattgaggag gcacttttgc aaaagatacg cgcccaaccg ccatatatta attgcggcta 300

atacagtcaa aactctcacc gttgacgata caattacca 339

<210> 3990
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084h06b1

<400> 3990

agtgctccgg ggagggcgtc gatcaggata cagtaacatg ggatgacgct attggatgcc 60

cctgctatgg tgttgacctg gcgaatggcg ttaatgataa caagaggcac gcgggggtac 120

tcgtataaga tctcaagagg aaagatgaat ggattgaaga gactacgaac aacgggtaaa 180

gaattggaca cggatagtaa gattgatgaa gacaaaaaaa aaactggcgc cgctctagac 240

aatgcaaaca taggagcgcg tggatacgag gt 272

<210> 3991
<211> 313
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084h07b1

<400> 3991

gatactaccg agcttgaaca gcttgacatg gcacagcatc tttggggacc ggtgccgggg 60

ttcggttttc atgaggcgtg caaccttaat tgaatgtggg agtgaaccgt cgaagaggcc 120

cttaactgca ttatcctggc aagcagacct gaagagaagc tgattgcctg cgacatgttg 180

cagagaaaca cctctaccta aggagaaaga ctgcttgcga gcacaaacgt ttcttgacat 240

gctgggcagg tattcgagat ggcttatgga gaaatatgat cctatcaagg agcaaggggg 300

gaatgaactg tgc 313

<210> 3992
<211> 335
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316084h09b1

<400> 3992

gctactcgtg cggacccggt ctagatgacc agggggcttt atacagcagc gacgctgacg 60

ttcgcggcca tggcacgaga cagctctgct ccactgtcaa tgaaatacac ctcagtgacc 120

cttgtcttac aacgacttgg ctcacagacc gctgatctca cggaactcaa ttgcccttat 180

gttcatgccc agttaaccag cttgccacat ttcgaggacg cacgagccaa tcggccttac 240

cgtcaggagc ccatcattta tgccgaattg gacgcgccgc ctaatttcgc agccagcgct 300

ctctgtgcgt tgaatacact catcgtgacc ggtac 335

<210> 3993
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085a06b1

<400> 3993

cggtcttttg ggggaatgag tacagtgtaa atccctaaac aaggatccat gggagggcaa 60

gtgtggtgcc agcaggcgag gaaattccag ctacaatcgc gcatatgtaa gttattgcac 120

atacaaagct tgtggttgga ccttgggccg gggaggacgg tccggctcac ggcgagcacc 180

gacgtactcg acccttcggc cggcgatagc gctgctagcc ttaattggac gggtcgtgtt 240

tccggcatcg atactttgaa gaaattatag tgatcaaagc aagccattgg tctgtataca 300

ttaacatggg ataacatcat aggattccgg ccctattgcg ctggccttag ggatcggagt 360

aatgattaat atggacagtc ggcggcattt gtatttcata gtcagaggag aatttttcc 420

atatatgtaa gacgaacaac t 441

<210> 3994
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085a07b1

<400> 3994

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gtgtctgacc gtgatgaggc cctctccttt caactagggt gatgatggag aatagcgccc 120

attgcaagat tgcggaggag tccatgacca aagacgactt gattgactcc cgtacgctcg 180

ctggtgaaca acatgaaccg tgatgatagc tctgactgtg actaaagaac aactggcgct 240

tcctgtggaa gagctacgag aagagctaga tgacacgagg cctaaactgg atatgtggac 300

attcaaaa 308

<210> 3995
<211> 289

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085a08b1

<400> 3995

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ataaaataaa catatgatgc actctaactt taaaaaaagg agaggatggt gaatagcacc 120

cattgcaaga atgcggagga gtccatggac aaagacgaat atgagtaccc cctcatggtc 180

ggatgtgtga aaaaatgaaa cgttaagtca ctctgagcat tgactaaaga acaactggaa 240

cttccggcgg aagatcaaag agaagagcta gataacacga ggcctaatg 289

<210> 3996
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085a09b1

<400> 3996

cgtgcggaac cggggctaga gtggaccaag attcaggcac ctgtgactat gaaggtgtct 60

ctcctttatg atgcactcta atttacaacc aaggtgatga tggtgaatag cacccattgt 120

aataaatcgg tggagttcat gaacaaagac gactagggtt gcccctcgta ctgtcgatgg 180

ggaacaatcg taacgtggtg tcattctgac tttgactaaa gaataaatgg ctcttccgtt 240

ggaagagcaa cgggaagatg tagataacat gagtcctaat ctagatacgt ggaaaaaaag 300

aacaacgtcg ttattgggaa aactctgaag ttacccaact ctattagtct tgcacaacat 360

tctccattcg ccacctggcg taatacataa gatgctcata gcgaaagttc ctcctaacag 420

ttgcttatga tgttta 436

<210> 3997
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085a10b1

<400> 3997

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ggtgtatcac cttgatgatg caatctcatt tcaactgagg tgaggatggt gaatagcgcc 120

cagtgtgtga aatgcggcgg agttcatgaa caaagacgac tatggttaca cccgtactgt 180

cgatgtggga acaatacgaa ccgtggtgtc agttctgagc tgtgactaaa gaataactgg 240

atcttccggt ggaagagcta cgcgaagatg ctagatcaca cgaggccta 289

<210> 3998
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085a11b1

<400> 3998

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gtaacaaact ccgatgataa cgctgaagct catgtaaaga aacagtgaaa ccattgacct 120

tgtctttaat tactcccgcg tggatgaatt gatccaatta aataactatg ctcccctcgc 180

cagagtgaaa caattagaaa gac 203

<210> 3999
<211> 279
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085a12b1

<400> 3999

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gaagctgacc atgatggtga cgacgacggt caactggcca gaccactgcg caccagacta 120

cgtgtcatac tacattggcg ttaacgacgt gaggaagcct tagtcctagc cgttcatcac 180

cgggttaagc attgaatagg aggtggactc gtactactgc tccaaatact actgccgctc 240

ctgctgcaag tgctactgct gctgctaggt gagatcaaa 279

<210> 4000
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085b03b1

<400> 4000

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ccggccgcct cagatgagta cgcgttcgca caatttgtgg atgtcaggac tattcccgcc 120

atagttcact aagtgatgga gtcctttgac caaagatgaa cttgatgtcc ccctccgatt 180

gtctggagaa caatagatct gagttgtaag ccctgattgc gactaaagaa gaactggcac 240

ctacgattgg cagagcttat agaagatgtt tgatgacatg aggccgaaac ttggcactgg 300

ccgctccatc aaccatcgcc tgactgtgga acaacactcg agctccccaa ctttaattgt 360

cttgcagaac attattttt 379

<210> 4001
<211> 142
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085b12b1

<400> 4001

atccggagcc ggcgctgtag atgaaccaga atcaggtacg cttgagtgtg aaggtatatg 60

tcctatatga tgtcacctaa tttcaattta atggacgatg atgaataacg atatgtgtgt 120

gaatactgcg gcgttaacga at 142

<210> 4002
<211> 529
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085c01b1

<400> 4002

gtgctttcgt acgtgagccc tagcgggttc gaggaggcag cgccggcggc ggagatgtcg 60

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gggatcagcg gcgcgccgca cgacaacaac atcatgctct ggaacgccgt catcttcggg 180

ccggatgata cgccatggga cggaggcacg ttcaagctta ccttgcagtt tacagaagat 240

taccccaaca agccgccaac tgttcgtttt gtctctagga tgtttcaccc aaatatttat 300

gcagatggga gcatctgctt ggatattcta cagaatcagt ggagccctat atatgacgtt 360

gctgccatat tgacttctat tcagtccttg ctgtgtgatc caaaccccaa ctctccagca 420

aattcggaag ctgccagaat gttcagcgag aacaagcgag agtacaaccg caaagtccgc 480

gagatcgtgg agcagagctg gactgctgac taaggcaggg cgaggccgg 529

<210> 4003
<211> 85
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085c04b1

<400> 4003

gtgtcttttg cggatccggc gcgtgagaag agcgtgagac atttagcagc gttggtgctg 60

ccggctgacc cacatgagtc agagt 85

<210> 4004
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085c12b1

<400> 4004

ttctcatgtc ccgagccggc ggtatagacg acccagattc aggcacgctt gattgcgaag 60

gtgtccctcc tatatggtgc cacctcatca caactggctg gacggtgttg accaggctct 120

agtgtgtgaa tgcggacggc gttcatgaac ta 152

<210> 4005
<211> 138
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085d01b1

<400> 4005

gcgactagtt cggaaacagc gcgagagacc accgagaggc actttgtagc gattatgctg 60

gtggctgtct ctgaggagtt caagtatata caacaggtgt gctgatggtg tattcattgc 120

cattagtggc atctgtag 138

<210> 4006
<211> 90
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085d05b1

<400> 4006

gtgataattg gcgaaccggc gcgggagtac accaggaagt agtcagcacc gatgttgctg 60

atggctgacc gagatgagtt catgtaagaa 90

<210> 4007
<211> 127
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085d11b1

<400> 4007

ttcttttacc gctgatccgg cgcgatagtt gaccaagatt tattcacccc cgctgacgct 60

gctggctgtc cctgatgagg tcatgtccga acaactggct gtaccatggt tccatatcgt 120

cctttgt 127

<210> 4008
<211> 128
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085d12b1

<400> 4008

ttctctcgtg cggagccggc tccggagatg accctgatac agtcagcatt gatgacgcag 60

gcgtctcacc ttgatgaggc cacgtcaata caactggctg tgaccatgct atattatggg 120

cccagttg 128

<210> 4009
<211> 84
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085e02b1

<400> 4009

tgacgtcata tcacctatat agggccacct aaaatcaata ctcggttcga cgtgatacta 60

cgtccaatcg tgtatatacc gagg 84

<210> 4010
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085e04b1

<400> 4010

gcgttttatg ccgaaccggc gcgagagtac accaggagtc agttaccagc gacgtcgccg 60

atggctcacc ctgatgagac cgtgtacgat caactggcgt aataaaggac gttacacaca 120

ttcgttttat atctgaggag gacacgacca aagaagaatt tgtttgctct cctccgctcg 180

ctggttgcac aacaagtaca gtgatgacca gcttgacggc gctcaaagaa gaactac 237

<210> 4011
<211> 81
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085e11b1

<400> 4011

tgaataccac cgccgctacg gcgcaggaga ccaccatgat tcagacacca ccgatgatgc 60

tgattgccga cccagaggag t 81

<210> 4012
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085e12b1

<400> 4012

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tgacgctcct 70

<210> 4013
<211> 525

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085f03b1

<400> 4013

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ttcaagatga aggccccctc gaagctccat gaagttccgc ttcagaacga tgaaggacgg 180

acagatccgc aggtggaggg ccgtcaagcg ccacaacgca caccaaaagt ccaaggaagc 240

aaagagaaga ctccggaagc ctgctttagt gcatttagct tatgccaaag ttataaagaa 300

gctcaacttc tgcggttagg aaattgatgg atggaggatg gtgattggca catgaatctg 360

atcaatgaat actgattgcc aacttatctt ggtacatttg ttcttttgat gcattgccat 420

cagatttttg tgctcccatc tcttcaccga tgccgatgat tattttattg tactaccatt 480

cacttgtttt ctaaacaatc agttgataaa ggcttccctg tgttt 525

<210> 4014
<211> 354
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085f04b1

<400> 4014

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ctggtttacc gatatgagta cgcgtacttc caactggtgg tagtaaggcc ctatctggac 120

atagtgtttt tatggaggag gccctgacta aagtatgatt ctgtttgccc tcctccgttc 180

tctgggtgaa ctaacagaat agtgatgtca gtctgacagt gactaaagaa gaaccgtgtc 240

ttcgtgtgga atagcttata gaggagtttg atgacacgag gcctaaactt ggcactggtc 300

tgctttaatt aaacattttt actgtaaaaa ctctgttgtt accccactta atcg 354

<210> 4015
<211> 90
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085f07b1

<400> 4015

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caatataata caagagaagt caaatcaaaa 90

<210> 4016
<211> 66
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085f12b1

<400> 4016

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gtggta 66

<210> 4017
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085g10b1

<400> 4017

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atggctgacc ttgatgagtc cgtgtcctca caactggcga aatctatggt ccttcggtgc 120

cattgttcgt actgtggagg agtacaagac cataagatga atagtatagc cctcctccag 180

atcgttggtg tgaacaacat gaaccgttga cgtattcctt tgactgtgta ctaaatgaac 240

aactggatgc tctctggtgg ctagagtcta taagaggagc tttgatcgac atctagggct 300

a 301

<210> 4018
<211> 102
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085h01b1

<400> 4018

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ctggctgacc gtgaagagtt cgcgtacgta caactgcggt ga 102

<210> 4019
<211> 85
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085h03b1

<400> 4019

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gcagattgac caatgatgag tttat 85

<210> 4020
<211> 346
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085h08b1

<400> 4020

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cgggttccac gtgatgagtc tcctatcgtg caaccgaagg acaatatggt cgctcggcgc 120

tctacagatt tttgacgtgg aaaacatgag tagtgaccca actgaaagcc cctcgtacga 180

cagctgcgtg atacaacagg agccgttata acacatcagg cgcggaccga agaacactct 240

gcaactattt gctgagacag attcgagaag gggacgatca caggagcggt gaactaagca 300

ctgcgcgtgt gttggcaacg ctcagactga caaaaccacg tggcaa 346

<210> 4021
<211> 59
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085h10b1

<400> 4021

tttttaactg cggacccggc gcgagagatc accaggaatt agtcagaacc gttgacgct 59

<210> 4022
<211> 365

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316085h11b1

<400> 4022

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tggctgaccc ataggagtac gtgtatgata caactgggga aatcaatgga cctacgtgga 120

atttgttaat atgtggagga gacccagtcg aaaggatgaa ctgattgtcc cgctttggtc 180

gcttggtgaa caacatgaac cgtgatgtta ccttggctgt gaccaaagaa taactcggtc 240

ttctggtgga agatctgata gatgagctat gatcacacga ggcctcaagt ttggtctgga 300

cgtatttaaa caaccgttat tactggtaaa actcttacgc ttacccacta ttgccttgta 360

gctat 365

<210> 4023
<211> 114
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086a06b2

<400> 4023

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ccaagggcaa aagacagaaa caaggaagcc gacggcgacg ggcggaaaca aact 114

<210> 4024
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086a08b2

<400> 4024

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ggtaatgatc caactcctcc ttcagcatct gctctgcagg caatagtgtg gctgcgcctc 180

caatttatca tcaggctgct tcaagtaatc ctggcagata ggggcatgag gcatacactt 240

gctcctgcga tactaagcct gcttgcggca cgcataatct atgaagatgc agattcgccc 300

cttcctcctg ccagtttgat tgcctcgaga cgggaagtgg actctttgct ggaacctccc 360

atggatgtcc tgcttgatcg cccaagcgag agtcttttcg agaggcttta tgtgttttca 420

tgcgctgctt ggcattgcaa accaagtgga tg 452

<210> 4025
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086a10b2

<400> 4025

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agcagcagca gcagcagtgt accaaagaag caagaagtga tgagggtgga tccactgggt 120

aggcgcactc agttcattga caacctcaag acgctgtttg aagatcttct gatggagttc 180

aacgtgaagg gcgctgacac taggaagttc ctggaagaca aggtgaagaa gaacctgccc 240

gcagcctgaa gactgcggta ggagataatt tgcctggtaa tgggggtgat agctgcaggc 300

tccgtaacta gaaataggta acaaggtggt ggtagtagtt tgctttccta agtgcaggga 360

aagttttg 368

<210> 4026
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086a12b2

<400> 4026

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cgggggacgg cgacgaggag ccgccggcga cgggcggcga caagctgatc ctgcggggcc 120

tgcagttcca cgggttccac ggcgtgaagc aggaggagaa gaagctgggc cagaagttcg 180

tggtcgacgt ggacgcctgg atggacctcg ccgccgtcgg ggactcggac gacatcgccc 240

acaccgtcag ctacaccgac atctacagga tagccaaggg cgtggtggaa ggcccgtcgc 300

gcaacctctt ggagtcggtg gctcagtcga tcgccgggtc cacgctgctc gagttccccc 360

agatctccgt cgtccgggtg aaggtcggga agccccacgt cgcggtgcaa ggca 414

<210> 4027
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086b03b2

<400> 4027

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cactgccagt gcggtcactg tcaggagcac tatccgtcgc ttgagggagc agactgaagc 120

ataagttgct actagtgttt tgtcctagtg aatcatctgg gattttgcag tttagacgat 180

actttggatt cagttctgtt ggctgtttag tcaaggatta tctttgtact tggtgcg 237

<210> 4028
<211> 540
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086b08b2

<400> 4028

ttcaccccga acccccagcc cccctccccg gcgccgccgc agcagcaaga tggtgaaggg 60

acgcaccggc cagcgcgtga ggctctacgt ccgcggcacc atcctcggat acaagaggtc 120

caagtcgaac cagtacgaga cagcgtcgct ggtgcagatc gaggggggtga acaccaggga 180

ggacgtggcc tggtacggcg gcaagaggat ggcctacgtc tacaaggcca agaccaagag 240

caacggcacc cactaccgct gcatctgggg caaggtctcc cgcccccacg gcaacaccgg 300

cgtcgtccgc gccaagttca cctccaacct gcccgccgag gccatgggga aaaaggtcag 360

gatcttcatg tacccgagca gcatctaaaa ggttatttttg aagtctggag ggtttcgctc 420

gtcccttagg tttcatttcg agtcatgtaa gatggattca ggccgggata agcatgtgaa 480

ctgctgttcc ctgtgaagac tgtagtctca tgtattctga tgtgtggtcg catatatatg 540

<210> 4029
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086b09b2

<400> 4029

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gctcccctgc cccgccaagc aaggatgact acttcaaggc gtcttgctga caggaagagt 120

gcgaagtttc agaagaacat cacaaagagg ggctcagtgc ctgaaactac tgtgaagaag 180

gggaatgact atcctgttgg acctatcgtg cttggattct tcatctttgt ggtcatagga 240

tcatccttgt ttcagattat caggacagct actagtggtg ggatggctta atatcgagct 300

aaaaacaaga ctatcattat cagagattta ttatccatgt gattgggagg caatatcata 360

tctgtaccct gtatcaaact tcgaccctga tgatgttatg tagagattta aatcttgttc 420

agtcatgttt a 431

<210> 4030
<211> 530
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086c01b2

<400> 4030

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ttacaagaca aaagatatgc aagatggcaa cacagaacaa tgtgtaattt gtcgtgtgga 120

atttgaggaa ggtgaatctt tggttgcact tccctgcaat cattcatacc atcctgactg 180

cattaatcag tggcttcaaa taaataaggt atgccctatg tgtagcgcag aagtttctac 240

ctcagcaagc aagcaggcat gaccaacagt cgttggtaaa ccaacttcat cttcagaaaa 300

gaaaagaaaa ggaaaaaacc agttgttggc acttggtagg agtatgtagt ggcatcattc 360

tagtatccct gatgtttaaa ccaaaagcaa ggcagcagaa acttctacag tacaaacttg 420

cgaggggacc agggacatgg agcatttttt ttatgccttg ccgctgatgc tctgcgttct 480

cttactcttg tacactaact gtgttattac cgtcgatcaa ttttttcttt 530

<210> 4031
<211> 516
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086c03b2

<400> 4031

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tcctcgcagc cctcatctgg tgcgccgcct acgtcgccgc cgccatctcc tcggtcttct 180

agtcctctct ttctccggca acccaacccc cacaagccct ctccctaaac ctaccccgac 240

cccccattcc caatctttcg gtagcccgac gctgaccatg ggtttcgcgc agctcgtcat 300

cggccccgcc ggcagcggca agtcgaccta ctgctctggt ctgtatcaac attgcgagac 360

ggtgggaagg aggattcata tggtcaacct ggatccagct gcagagcact tcagctatcc 420

tgtatctacc gacattagag agctcatatc actggacgat gtcatggagg agctcgggat 480

gggaccaaat ggcggcctca tctattgcat ggagca 516

<210> 4032
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086c05b2

<400> 4032

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gccggccatc gtcacggtcg aggagactac ggtggcagcg gtggcgattg tcgagccggc 120

cgtcgacaca gttgaggtgg caacggctga ggctgtggag ccggccgttg tcgccgccga 180

ggaggccgcg aaggaggaag ctgttgcacc ggccgtgacc gagctggcga aagaaccgga 240

ggcagctcca gcggagacca aggaggccga gacagaggcc aaagagaccg agcccgaggc 300

tgtccaaccg gcggcagccg ccgaggaggc gcctgctgtg ccggcagtga ctgagaccaa 360

agagccggta gctgcccctg ccgagggaac agagacaaaa gtgtggagcg tgaggcagca 420

tccgctgagg tcgagaccaa ggaatcagag caggaagctg cttcagctga gactgagacc 480

aaagaggcag ag 492

<210> 4033
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086d01b2

<400> 4033

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gtgtgcgtgg cgtgcctgat cccgctcttc ctcatcccct tcgtcaacgc gctcccctac 120

ctcttcgacc tcctcctcag caaggtttat cgcatgcttg gatgggaata caggaggccc 180

gagagagtcc cagctgcctg cccgttcaag cctgcagcaa acaagactga aggtgtggcg 240

ggtgaatcaa aaccagtagc aaatcctcat gttgcaagtg caaatcctct ggtggaaccc 300

cagagtgcta ccacagaaat gaagaaagat gattagaaca tgtaacgctc gcccgatttg 360

acttatgtga acaactctca ctatttgtat ttgtgactgc gtcgtaaccg agaaataatt 420

aatgtaagat tgtatatctg ggc 443

<210> 4034
<211> 548
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086d02b2

<400> 4034

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gaggtctccc agcactccaa gtacttctgt gagttctgtg gcaagtttgc cgtgaagagg 120

aaagcagtcg gaatctgggg atgcaaggac tgcgggaagg ttaaggccgg tggtgcctat 180

accatgaaca ccgccagtgc ggtcactgtc aggagcacga tccgtcgcct gagggagcag 240

actgaagctt gatcgcggtc aatctgacaa aggagcctct ggattttgta gttcagacga 300

gactcattcg acgcaatata gcctaaattg acaacataca atgttattta tcggcttgtt 360

ggggttctga atgtatccag ctacgttaca atgtgtatct cgtttatcgt gcttagttga 420

ttgtctaagg gtattcgttg tgtgtgtcgt tggttcttga atcttaaagc tattgtcatc 480

tgttcttaga agaactagcg gggccgcctg tgcatttgtg cttctatttg cattgacttt 540

agctgttc 548

<210> 4035
<211> 381

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086d06b2

<400> 4035

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ggatttgctt attgttatct cttctcacca acggtgctgc ctgcctgtgt aactcgaatc 120

catccatcag taacagaggc tttatgatct taccatcttc aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaaaataa aaataaaaaa aaagaaataa 300

agaataaaac aaaattaggg gggggccctt ttaaaagaac ccaggtttac ctccccgagt 360

gctacataat attttttttt t 381

<210> 4036
<211> 505
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316086d07b2

<400> 4036

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cgcgaggaac gccaagatcc ccaaggccgg cgacgatggc ggcggttcgg tgcgcggcga 120

ggaggctcgg cggctctctg ctccagcgaa cgcaggcggc ggtcgcggag gagggacgcc 180

tgctcgcgcc aagcaggctc atgcgctccc gccagctctc caccaaggtc tccggcgagc 240

gatcgcaggt ggcggagcga cacctcctcg agccaggcag cctcatgcgc tcccgccagc 300

tctccggcga gcatgctcgc aacatccaga agaaagagga tgactgctgg gcggngttca 360

atgagacgct aaagaggttg gacgagcttc aaaaaaagat gaaaccaagt gtctttcagc 420

agcgcatgat atccatcgac cgtgcgttga agagtttggt ctatggatct ttcaggtgac 480

agttgtgtat gtggctgctg ctact 505

<210> 4037
<211> 381
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086d11b2

<400> 4037

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ataaaaaaaa aaaaaaaaaa aaaaaaaaag aagaaaaatg acaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa caaaaaaaaa aataaaaaaa aaaaaaaaaa agggggggcc gttctaaaaa 180

aaccaaaatt aactccccgg ggttgccaag taaaaatttt tttattgggg aaaccaaaat 240

aaaatcaatg gcccgtggtt taaaaaggtg ggaatggaaa aaccccggtg ttacccaaat 300

taaaatgcct aggaaaaaaa atccccttat ccccaagtgg ggaaaaataa aaaaggcccg 360

aaaaaaatcg cttttcaaaa a 381

<210> 4038
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086e01b2

<400> 4038

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ccaccacttg aattgaacct caagcgcaca gaggaggagc ggtgcaacac tgccacccct 120

gcaacagctc cagcaacaag gagaagaggc ctcctctcaa gaggggccag atcaaggtgc 180

aaatagccaa gaccctgggc agcctcgtgg tgccgatcgc caggaacagt tttagaagat 240

gagatggctg atggccaacc aagctagaag tgtggtgtgg tgcttgatat gcatagggat 300

tg 302

<210> 4039
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086e02b2

<400> 4039

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gctcaatgcc ccgtctcact ggatgcttga caagcttggt ggagcttttg cccccaagcc 180

atcatctggt cctcacaagg ccagggagtg cctgcctctg atcctcatcc tgaggaacag 240

actgaaatat gctctcacct accgtgaagt gcaatctatc cttatgcaac gtcatatcat 300

ggttgatgga aaggtccgca ctgacaagac ctaccctgct gggttcatgg acatcatttc 360

cattcccaag actggtgaga actacaggct tctttatgac accaagggtc gctt 414

<210> 4040
<211> 80
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086e03b2

<400> 4040

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gcgcggcgtc tagggaaagc 80

<210> 4041
<211> 484
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086e11b2

<400> 4041

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agccatggtg cacgtcaact tctaccgcaa ctatggtaag acattcaaga aaccaaggcg 120

tccttatgag aaggagcgtc ttgatgcaga actgaagctg gttggtgagt atggattgag 180

gtgcaagcgt gagctctgga gggttcagta tgcattgagc aggatccgta atgctgcaag 240

acacttgctc acactggatg agaagaatcc ccgccgtatc tttgagggtg cggctcttct 300

ccgtcgcatg aaccgctatg gtctccttgc tgagggccag gataagcttg attacgtcct 360

tgccctgact gctgagaact tccttgcaag gcgccttcag actcttgtct tcagggctgc 420

atggcaaaat ccatccacca tgcccgtgtc ttgatcaggc aacgccacat cagggttggc 480

aggc 484

<210> 4042
<211> 228
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086f03b2

<400> 4042

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agcacagcgg agcgtgagtt cagcatgatt aaatcaacac cgctgatgct gttgggtgac 120

cttgcccagt tgaggtccgg acaactcaag tgatgatggc atggccgtgc catggcattt 180

ctgctgtgga gtggatgaca aaagataaga tgaacggacc gctccgct 228

<210> 4043
<211> 322
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086f06b2

<400> 4043

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tcacatattc gtgaccaaca ttatcatact gtgcatcgct cttcttctat ccttgtccct 180

ggcgaggcta tcctggacca atgcttgtaa ttccacaaac ttgtaatgat ggtcggtgcc 240

agccttgtct catctacaac acccatgttt cgaggaaaaa aaatgatggg ttgattgaga 300

aaaaaaaaat taaaaacata ag 322

<210> 4044
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086f07b2

<400> 4044

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tcctgagcgc gtcgccggcc gacatcgcgg ccggcgccgg cgccggggcc agctgggctc 180

ggttctcctg gcaggggagg aagctgcagg acgacggcca ggccagagca gggcaagagg 240

ggaagcaggg cggtccaccg tcggaggcgg agcagcagcc ggacaagggg agatcgccga 300

cgtt 304

<210> 4045
<211> 480
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316086f09b2

<400> 4045

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tattgtccag aaaagtaaat gaagttgtga atgaaataag gcgacagaga tgctcctacc 180

taagactgag actatgccaa aagggcgacc catctggaga tttcttccgt tccctgttgg 240

ttgaggacaa agcacccggt ggcctttctt atgtagagtt ccttgtacat gttcacaggc 300

aaatccagag caagatgacc tgacatgacc tgcttcattg ttgtgatgtt ttggttggta 360

gacatcatga cggactcgat ttctgcatgt ggatatacaa aaagggaaca acgtttttct 420

ttgtaaacac agctatagca gatttgtagg attctagtcn ttgatttaca agtcagtttg 480

<210> 4046
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086g06b2

<400> 4046

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ccaagacggc gacgacggct cggaatctcc cagggccgcc gttcccctcc attccaaggt 180

tggttcagct gtgaaaaccg ggttctggac aacggtagac atggcgagcg ggcggtacct 240

ttggcggacc cttgttgcgc caccagcgaa ttctgaatcc gacaaggcct ggtgacgacg 300

aacttcatgt tgtctgtttg acatttgtgt aatgcgggag acaagggatg tgatgtgcga 360

tacggcggtg attgtaaata tgggttttct ttgtttaagc aaatgtgcaa attgttcatg 420

cttgagcccc gtgttatatg ccaggactgg attattttg 459

<210> 4047
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086g09b2

<400> 4047

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gggcatccgg ctcgtgctcc agtgcgtcga ggagccgcac gccgccgtct tcacccagga 180

gctggagaag ctcgcctaag agggcttgcg ttcgtcatgg ttacctccat actttacaga 240

attattacag gtgggatttg gagttgctgt tgttgttgta ttcttcatct tgttgtgtgt 300

tgtagttgtt gtattccaca ccaggttttg cttccaacaa acaaataaat cactgagggg 360

ttcttctttc tttgtgtctg tatacttaca ttgtacatgt atttgacatt gtgaatcagc 420

agaataatgt catgtgttcc caggtg 446

<210> 4048
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086h03b2

<400> 4048

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ggaatcttat tgctgatcat cgccggtcga tcgatcatgt ggtggtggtg gctgctcgcg 180

cgcgcgtagg acgtggatca tgtctcggcc gcgcacgctg cgatcatcta tatctaccgc 240

gctgttcctc ctctcctcgg tgtgtgtgcc tgtcggcagc gtcacctgtt caagtctgcg 300

aagtggaacc tgccagaagg acattccact gctgtggcat cgcacgcggg ctaacggagc 360

gtgcatatgt atgtaaatta ctattatgaa gg 392

<210> 4049
<211> 527
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086h04b2

<400> 4049

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ccctggccat gaccacggtg accgcgtgga tggccaccct gctgcacgag ttcgagtggg 180

cgccggcggc gtcctccggc gtcgacctgt cggaggtgct ccgcctgtcg tgcgagatgg 240

cagcgccgct ccaggtccgg gtgcgcccga ggaggtgctc cgcctgatgt ggctctggcc 300

acaggtttga tcggcctcgc cgtgtgctgc tagtagtttc tcgtagtccc gtgacgtgac 360

cccgtgcttc acgaaagtga ataattaagc tgccggtgta aaatgtacgt gcgccgggcc 420

cagctcagct cagtggttgg ttcagagttt ctttctaact tgtgtgatgt gatgtgtatg 480

ctatgtaacg taccatcagg tgtgagtgtg aggttccaca tggtgta 527

<210> 4050
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086h05b2

<400> 4050

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tggaccaaca tggactgaaa taataaaatt tatttccaag tttcaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaccaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaggggt gccaaaaata aaaaatcccc atttctttca 300

actcaacaaa tattgggggg ccccctttt 329

<210> 4051
<211> 535
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316086h07b2

<400> 4051

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gcctactccg cggtgtgggg ctggtggtgt gcgcactcct gcttctctcg ccctctttca 180

tggcggctga ggcaactggc cggaaatggg atcacgggag agaggccacg gtggccgtga 240

tgccgatggc gggagggcgt tttgcgagga aggtgttgcg ggaggagatg gtccaggcag 300

acggcgacgt cgacattgcc ggctctaaga ggaaaagccc cggtggccca gaccctcagc 360

atcattaact gatgtcgagg tctcctcgca tgcatatttc tctacaaagg cagcatatac 420

atgggacctg aattccaaga tagattgacc gatcaagctn gtgttcttgt cttgatatcg 480

tagtgaaaga gatggttttg tttcataagc ataggtatat acatgtatta catac 535

<210> 4052
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316086h09b2

<400> 4052

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aggctcttga gaactacgaa ggtacccctt tcctgccctc ggactcggac ctcttacttg 180

attccccaga ccataatgat gacatagttg agtacttcgc cgacgccatc aacgggactc 240

aatcagatga agagaagtca tagagaagat gaaagactca ggtagtctca ttcagagtgg 300

gacctggcca gagtgtcatc tcatgtagtg taatcttgta gctgcgcgca aatcagactg 360

ggaattcacc cagaggtgcg gtgattggcg cgcgcccctg aagattttgt agcgttcgat 420

gctaattatt tggaataa 438

<210> 4053
<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087a06b1

<400> 4053

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tgcatcaaga tcctcgctca atgcaagaag gccatacctt cccgagaaat gggaggaaaa 120

gtgatcatca tagacatagt gcttggatct tctctagaga caataactga aaccgaactg 180

ctgatggaca tgctgatgtt catatgtacc agaggacggc aacgggatga aaaggagtgg 240

agcacgatct ttacgaaagc agggtttagc aactataaga ttgtcaagaa actttgccat 300

cgaggtgtca tcgaggtcta tccat 325

<210> 4054
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087a10b1

<400> 4054

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atgcgttctc ctgtgaagag tgcataaatt gtttttattc gcttgatatt tatttatgcc 180

agctaatttg caggtcttac aattaatact aatctttagg cacaggacca ggaccacatg 240

gattgcatca tctggtttat gaaatactga ataatgttgt tggtgaagct caagcaggct 300

atgctactga gattaatgca gcccttcatg atgacaattc agttagtgta actgacaacg 360

gccgtggtgt atgcagtttc taaaacctat gaaagacttc ctgaatgttc aatgcttcta 420

caaatattgt ggaaaaagaa ttggtatgtg tt 452

<210> 4055
<211> 198
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087a11b1

<400> 4055

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ctcggttcct tctccttact ccgagctgca gccatgggca aggagaagac tcacatcaac 120

atcgtggtca ttggccatgt cgactctggc aagtcgacca ccactggcca tctgatctac 180

aagcttggag gtattgac 198

<210> 4056
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087a12b1

<400> 4056

gtctctctag ctcaggccgt catgctcaag cttgttttac atttctggag cgacgaggat 60

tgcttcatga tcctcgctca atgcatgaag gccatacctt cccgagaaat gggaggaaaa 120

gtgctcatta tagacatagt gcttggatct tttttgagac aataacttaa accgaactgc 180

tgatg 185

<210> 4057
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087b01b1

<400> 4057

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gacgagcttc tgtcggattc gttcccttac agggagctgg agaacggcgt gctctgggaa 180

gtcgatggcc attgggtcgt tcaaggagca gttgatgtgg acattggagc caatccctct 240

gctgagggtg gtggtgatga tgagggtgtt ga 272

<210> 4058
<211> 191
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087b04b1

<400> 4058

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tatatattgc ggcgccttta ggcccccttt tttggttttt tccatttttt aaagcacagg 120

ggggtttttt tccaaaaaat aaaaaaaagg gggggcgctt cttgtgtcct tttattcccc 180

ccccccccc c 191

<210> 4059
<211> 533
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087b09b1

<400> 4059

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caagggaggc aaggggctgg gcaagggcgg cgccaagcgc caccggaagg tgctgcgcga 120

caacatccag ggcatcacca agccggcgat ccgccgtctt gcgcggcgtg gcggcgtgaa 180

gcgcatctcg gggctcatct acgaggagac ccgcggcgtg ctcaagatct tcctcgagaa 240

cgtcatccgc gacgccgtca cctacaccga gcacgcccgc cgcaagaccg tcaccgccat 300

ggacgtcgtc tacgcgctca agcgccaggg ccgcaccctc tacggattcg gcggctaggc 360

cgagggccca gccagctcgc gacgccgccg tccggcagag tagtggtatc tatctagttg 420

ctgtctaggg ttcgtggttc tcctttgatg tcgctggtgt ttgtctgctc ccgtcttgtg 480

agctgatgtt gtactggaag aaatttgaat ggaaatngca gtagctaccc ccg 533

<210> 4060
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087b10b1

<400> 4060

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gagtttctag agctgcaaat tgcaagtgag ctttccaatc caccttttag ttgatcctct 180

tcccgtgagc agttgcaggt ctatgcatgg cgagactgct tatatatgag cacgccgcgg 240

tcgtgtactg ctaggacggt gaccgttcag gactagagcg acccgtggcc ggggaattac 300

ataccatagg c 311

<210> 4061
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087b11b1

<400> 4061

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ctagcagatg gcaggcggca gagttgcaca tgcgaccctc aaggggccga gcgtggtgaa 120

ggagatcttc attggactca cccttggcct 150

<210> 4062
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087b12b1

<400> 4062

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gcgttgatga tctcatctgt tgattgtaac tgtgattaaa gaagaaacta g 171

<210> 4063
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087c08b1

<400> 4063

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gagacggagt accgctgctt cgtgggcgga ctcgcctggg ccaccgacga caacaacctt 180

cagcaggcct tcagccagta cggcgagatc ctcgacgcca agatcatcaa cgaccgcgag 240

acggggaggt cccgtgggtt cggcttcgtc acgttcggca gcgaggagtc gatgcgccag 300

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cagtcccgtc gctcccgcgg ttggggcggc ggcagctgct acggc 405

<210> 4064
<211> 153
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087c09b1

<400> 4064

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cccgctgccg gagctagtcg ccgacgggga gcc 153

<210> 4065
<211> 65
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087c10b1

<400> 4065

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atcgc 65

<210> 4066
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087c11b1

<400> 4066

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ggaggggcgg ggtcaatggc gtgggaggtg ttgaggaggc atttctcgcg gaagcgggcg 180

gtggacatac ggcggatcaa ccccaaggtg cccaaggacg gaggacgaag tcattttcgg 240

tcggctactt catgatactg gagaccgctg accggtggac cgagccagca cctggaacca 300

ctcctaggac gctgcgatcg acagaccgat caggatgacc aacatgaaga tcctgctgaa 360

gatgctgtt 369

<210> 4067
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087c12b1

<400> 4067

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gatgtcttgc aactgtggat ccggttgcag ctgcggctca gactgcaagt gcgggaagat 120

gtaccctgat ctgacggagc agggcagcgc cgccgcccag gtcgccgccg tggtcgtcct 180

cggcgtggcg cctgagaaca aggcggggca gttcg 215

<210> 4068
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087d01b1

<400> 4068

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tcgagatcaa agccaccgga gatgaagttc ttctcggcgt tcgacccgtg gccggtgttc 120

ttccgccggg agtggggccg cacctggccc ttcctcgccg gcttcgccgt cacggggacc 180

ctcatcacca agatgaccgc cggcttcacc gaggaggacc tcaagaactc caagttcgtc 240

caggcgcaca agaacaagta gtcgccgtcc gcccggcccg ttcgccgcca ggtcacaggg 300

gcagcagctg agttaccggc atgtgtcctt gatgcggcga gccaattccc accctcacta 360

ttgtgattga actttctgtt ttt 383

<210> 4069
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087d03b1

<400> 4069

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ggcaagacgt gcccgtctga gttcacttgc ccatcccatt gacggatgcg tactgctgca 120

cgggcgccga ataagatttg ctttcagatt ctaaaaaaat aaaaattatt tgctttcaag 180

ccgtacgtcg ttgttatttt cgtgtccaca tttgaatcct tgtaaccagc actacttttt 240

tcgtttttag caaacaacct aatagtcgtt ttttttgtga caaacatgta ctcttcgtat 300

taatatatat catcaataaa tttttgtca 329

<210> 4070
<211> 482
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087d04b1

<400> 4070

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aacaccctct tgatcatgcc ttttaagctt ccgccccttt gttcttatta tgttcgagtt 180

ctgttgaagg ctctgtttat ttgctcgtag ctaccttctt ttccttaagg atatttacat 240

ttttcttttt ttgttttatg agctcatggt tttctttctc catttctctt tccttctcta 300

ccatttttct acctttttt catctttccc cttgcaccta ctttttttctt tattctcttt 360

tcatttcttt ttcttttgtc ttttaggtct tttttctttt cttttctttt ttttcacttt 420

atcttcttct ctattattct tttttttctt tcttaattaa tttctcgccc ttcttttctt 480

tt 482

<210> 4071

<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087d05b1

<400> 4071

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atttatctgg ctgatagctg tgaggcgtct ggtgttctcg tgtgaccata gtaggagatg 180

gtataaagat cggtctcctt cggtccttcc cggaagaaat ggatctggca ttctggctgg 240

aaaacttgct agtgagttcc tgtcttgtct tcgggtggat gcactgaaca gtccccccc 300

ccccccctt gaccgtttta aaaatgagga gcaaccaaca taggggaata ccgcatatat 360

ttt 363

<210> 4072
<211> 473
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087d06b1

<400> 4072

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gtttgaccaa gccggacgca agtcccgccg acgtgctaac cgtgtgacca aggcattgcg 120

cattgcaccc cgccccattg atggcctcat tcgccccgct gtcaggtgcc ccaccatcaa 180

gtacaacacc aagctccgtg ctggccgtgg tttcaccctc gaggaactga aggctgctgg 240

tgtccgtcgc aaggaggcca tctccattgg tgtatctgtc gacttcagac gtcgcaaccg 300

ttctgaagag tctctccaat tgaacgttaa ccgtctcaag gcctacaaag ctaaactcat 360

tgtgttcccc cgcaaggctg gaaaggtcaa gaagggtgac actgagatct ctttcgncga 420

ctttgccaag caagcgcata tcaaggtcgc caacgtcttc ccggttgagc aac 473

<210> 4073
<211> 199
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087d08b1

<400> 4073

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tgatcagccg gaggatgagg agtcggtgat ggatgaactc tgatgtatca ataggagtga 120

agggttgatg tattcttagg cgtttgggat atggcattgg caaggcatcg aagctgcaat 180

aattttatag tatttaccg 199

<210> 4074
<211> 226
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087d09b1

<400> 4074

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gtccgactgg gaacaccctg gggattccga acaataatga cttgcccaac tttcccctct 180

tgctagatgg cgcactttcg accggtgccg tactagtcga tatgtc 226

<210> 4075
<211> 310
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087d10b1

<400> 4075

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ccagtttcta tagctgcaga ttgccagtga gctttccaat ccagctttta gttgatcctc 180

tctccgtgag cagtctgcaa gtctatgcat ggcgagactg cttatatatg agcacgcctg 240

ggacgtgtgc tgctaggacg gtgaccgctc atgactagag cgacccgtgg ccggcgattc 300

acataccata 310

<210> 4076
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087d11b1

<400> 4076

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gttcaccaga aaggtggtga aaccagcaca aacagcattg cttcaatctt tgcttggaca 120

agaggacttg cacacagggc aaagctagac gagaatgcta gacttcttga atttgcacag 180

aaacttgagg aagcgtgcgt cggaactgtg gagtctggga agatgaccaa ggaccttgca 240

ctccttgttc atggatcctc aaaagttaca agaggcgatt acctgaacac tgaagagttc 300

attgacgcag ttgctgctga gctcaaatca agactgtgaa agacctctcc ctcttcaatg 360

cttgaatagt cattactcat cgattcaagt cattttggtt atgtcggcat tattctgtca 420

tgctttcatc ctgaacagaa cgagctttta ctgcacattc gcttattatt gtcaaaaatg 480

caatcgatt 489

<210> 4077
<211> 435
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087e02b1

<400> 4077

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cctccccgcc gccaccgccg cgcgcgcgcg agagagagac cacagcgacc aacccagcca 120

tgtcggtgcg tccgagcgag cgggccgacg cgcggcggaa ccgctacaag gtgacggtgg 180

acgccgatga ggggcggcgg cggcgcgagg acaacatggt ggagatccgc aagaaccgcc 240

gcgaggagag cctnctcaag aagcgccgcg aggggctcca ggcccaggct cctatccctg 300

ccgccggcgt cgagaagaag cttgaaagct tacctgctat ggttggtggg gtttattccg 360

aggataacaa cctgcagctt gaggcaacga cacaattccg caagttgctt tctatagaaa 420

ggagcccccc aatcg 435

<210> 4078
<211> 62
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087e03b1

<400> 4078

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ga 62

<210> 4079
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087e04b1

<400> 4079

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aatctacttg acacaaggaa catattttta cc 92

<210> 4080
<211> 455
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087e05b1

<400> 4080

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tactgaactc gctggtttcg tgtgatctag agctcgggag ttactctagt tagagcatct 120

ccaacagccg cgctaaacta gcgccgcgcc gcaaattaga ccgtcttagc gcgcgcgcaa 180

cgcggcgggt cgcttcagcg ggcgcgcaaa accgacgcgc gcgttataac gggttgagcg 240

cgcggttgaa aatacttacc cgcgcggtgt attttgggcg ccagctacag cgcgcggcac 300

actcgatcgc tcgcgccgca ctctcttctc tcctcgtnct acgccccgcg cgcgccggcg 360

ccggcgccct gccacccacc catggacgcg cacaccggca ccccgctcac cccgctgtac 420

cgncgncgnc gnncgcggaa accctagcgc gggaa 455

<210> 4081
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087e09b1

<400> 4081

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aacgatgagg aggatgcttc caagcatgtg gaggactaat gggacttgga tgacgaggat 180

gctgtggatg aggacacagg tcacaagact aactgtgagg ccgactctga tgactagaag 240

aacaactaga cctagatgga tggctaggat gaacggaaga cgaactgctt ctccccggtg 300

ccatgattga agaggagc 318

<210> 4082
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087e11b1

<400> 4082

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gcaacctcga agatgtcttg ctgcggagga agctgcggct gcggcagcgc ctgcaagtgc 120

ggcaacggct gcggcggctg caacatgtac ccggaggtcg aggccgccgg cgccaccctc 180

ctcgtctccg ccactgccac ccacaaggcg agctccggcg ggatggagat ggcggcggag 240

aacggcggct gcggctgcac ccagtgcaag tgcggcacca gctgcggctg ctcctgctgc 300

agctgctaga tcattgatca tgcatgcgcc gcgtgcatca tatctatgat ctatctacca 360

tctactacca tgtaacgctg cctgatcgag ggtctttgta tgtatgtacg cacctgcctg 420

catgagcaga gcgggtgcca tgccatgcat gtaaacccct aaataaaatc ttccgtggtt 480

tgctt 485

<210> 4083

<211> 198
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087f08b1

<400> 4083

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tctaattgcc tatccaagaa aagaacgagt tcgaacaact ggagaaaaaa tggaccttag 120

aagacaatag aatggtgggg cggactacag gaccaaagat tacctggctg gcctgctacg 180

atcgatgggt gaacaagt 198

<210> 4084
<211> 418
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087f09b1

<400> 4084

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ggtgcattat tgttctcgaa gatgagcaaa gtacgttctg aaaccgtgtc aactgagaag 120

tggaaggttg ccagtttagc tgctgtctca cttatctgtt tctcgtcttc tgctatacta 180

gcacttgtta ctaatattcc agtgcttttg tattggtact ccactgaggc ggagatcata 240

aaaaatgctg ntatattatt tttatattat ttaataggct catcggtacc atcaggattt 300

gttttatggg tcatgagaga tatgcctcaa cgaccaacgg tggaaaggcc cacccaatcg 360

agagtggtta ccttgttcag ggacagacca ttccctacac aggatccaca gtggagag 418

<210> 4085
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087f10b1

<400> 4085

ttacttcaca gagcatcagc cggagcactt cttcctcccc tccgttcttc tccggctccg 60

gtgctctcgt acgcgcgttc gtccgagacc accacctcga ccaagaagag atggagatga 120

agaagatcgc ctgcgccgtc cttgtcgccg cctccgccac cgtggccctc gccgccgaag 180

ccccggccat ggccccggcc cccggcgccg ccgtcgccgg ctccgccgcc gcagccgtcc 240

cggccgtcgg cgccgtgctc ggggccaccg tgctctcctt cttcgcctac tacctgcagt 300

aagcgcgccc cggcccgagt cagttcgctg cgaggaggag gaaggcagga agaagaagat 360

cactaattcg ctatgtatgg ctttacgcta cgctgattcg aggcacgcgc gtgcgctttg 420

atcgatgcat gcgcgtgct 439

<210> 4086
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087f12b1

<400> 4086

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gcgtgtgctg cgctcgccgc gacgccggcg gcgacgtatg cggagtaccg gccggagccc 180

gagccctgca agacgcaggc catgtacttc aagaactgcc tccgcctcgg ccactgcgag 240

aagtgctgct tcggggtggt ggccaacccg gcgtgctact tgcaggtgga gcgggaggcg 300

ctgatcgagt gcgcgcctgg ccaccactgc agtcgc 336

<210> 4087
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087g06b1

<400> 4087

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gcaagctgag gtgtgtggag ctcaagtaca agaggatgca ccgctgcata acctacaggc 180

tggagaacca gacggaggtc attgtggacc aaactgggga gcgcgaggcc acctatgatg 240

acttcaccaa gaccctccct gagaatgact gacgatacgc ggagttcgac tacgacttca 300

ccacccagga ggatgtgcca aagagcacga tcttctatat cttctggaac ccggacaccg 360

cacaggtgag gagcaagatg acgtacgcta gcaccaacga gaagttcaag aggaccctgg 420

acggcatcca catcgagat 439

<210> 4088
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087g08b1

<400> 4088

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ctaattgcct atcccagaag agaaaatgaa caaacaacag gcgtaaacat ggacctaagg 120

agccaatgat acggtggggc ggagtacagg accaaagatg agctggctgc ccggctacga 180

tcgatgtgtg aacaa 195

<210> 4089
<211> 372
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087h01b1

<400> 4089

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agacccggcg ctacctcgag atgctgtacg ccctcaagta ccgcaccatg gccagcaccg 120

ttccactagc tgttgaggga gactccgcga gcaagtaatc tggccacctc ctggccgaaa 180

gaagggtgac ttggatttct gaaagattga gatttgagaa tgatttggtt tacgtcctag 240

gcgctgcccc tttcaagatt taaggttgag taattggtgt gctagttttg tttagtagtt 300

ggagtgagtc gagacagagg aaaatgtggt gtgtgacaat cggttggttg gtgcttatcn 360

gttttcttgg at 372

<210> 4090
<211> 102
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316087h03b1

<400> 4090

aaatttattt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa acaaaaacaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactaaata at 102

<210> 4091
<211> 549
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316087h11b1

<400> 4091

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gatttggagg atgtcttgca actgtggatc cggttgcagc tgcggctcag actgcaagtg 120

cgggaaggtg taccctgatc tgacggagca gggcagtgcc gccgcccagg tcgccgccgt 180

ggtcgtcctc ggcgtggcgc ctgagaacaa ggcaggtcag ttcgaggtgg ccgccggcca 240

gtccggcgag ggctgcagct gcggcgacaa ctgcaagtgc aacccctgca actgttaagc 300

tgcatgcact cgtaccgtcg tacgtacgtg tgatggtgtg agagtatacg tgaataacga 360

gcgtctgatc tgatggagtc gagcaagggt gcgtgtgcat gtgcgtgtgg tttacttcgc 420

tcgctctccg cctatgctct gaccttggtg tacttgcttg tatgtgtgtg catgtgtccc 480

tgtaattgct tcatctatct ncaatatgga tggagtgatg aatttgtaga atgaatgatt 540

acctaatta 549

<210> 4092
<211> 230
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088a01b1

<400> 4092

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cttagatttg ggtttagtat tgagatttct caatgttgaa atatgaatgt gcttttgctg 180

gaacaacatg gtctttctga aaaaaaacca gctcagaact gcaaatactc 230

<210> 4093
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088a05b1

<400> 4093

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atttttgtaa ctgctaggct gtggttctat gtgctgagga gggaggcgct gctgctcatg 180

ttgctgctgc tggagtcctc actttatttg ttcagactat gtaatgaccg aatgatgtta 240

tttgtctgtg tcat 254

<210> 4094
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088a08b1

<400> 4094

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tggtcctcct cccggcgggc cgtgctctcg ccacggcggc cggcgacgcg cacccgggct 180

acgcgggcgc ggaggccgac acctgcgagc cggcgcccgg cggcgctccc ccctacggag 240

gaggcgcggc aggccggcgc cacggcccgg cgctggagga gtacgggggc gggcacatcg 300

tggacattac gcacgcgtac cgccccagca tgccggcgtt cgcgcccggc gcgaccgtcg 360

gccccctcgt gcggctcaag gcggccattg aggacgggtc ggagtacac 409

<210> 4095
<211> 189
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088a11b1

<400> 4095

aaaaaaaaaa aaaagaataa acttccctag ctagggacaa aaaaaaaaca atgttatttg 60

tgtgtcaata aaatcctgtc cggaacaaat gttgatagcc tgttgggggc cagtactcag 120

aggaccaccc tcttaatacc ggcggacggt gatcccaatt tctatatatg gcttaaataa 180

ctaaaaatc 189

<210> 4096
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088b01b1

<400> 4096

ctcagaggcc aggctgccgc ctctgctgcc aaggctgaca aggccactta gagttatcat 60

tgctgtttat ctatgtttgc tagctctaga ttacccgtca gtgacatgta ttgcagtaag 120

gatgtcgttt ttgatcagta ctttggtaac ctggtgatat ttgttatcag ttttcgctgt 180

cgtggtctgg attcttcagt ccacataaag aagattatta tgcttggat 229

<210> 4097
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088b02b1

<400> 4097

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gtgtggcggc gggcatgaac gagtcctagg gcaggggat ggaaaaacaa attacccttc 180

ccgctggtgt acacggggta ccctacggcc gcagacccga ataaggggtc ccttggcacc 240

atcgcgccca tcgggatcgg gttaatcgtg ggcgccaaca tacttgccgc cggcccc 297

<210> 4098
<211> 255

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088b11b1

<400> 4098

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tcagtcgact ctccaatgtt gtgtcggtaa ctatcagatg ttgagtgtct tgaaaacttt 120

ctgataattg tgggatttgc tttgtaatgg taatcgtgaa attggtgtgg ttaaaaaaaa 180

aaaaaaaaaa ataattatca aagtaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aacaa 255

<210> 4099
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088c02b1

<400> 4099

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gcgatgctcg agggcgccgt tcccctcctt ggaggcgaac ctggccgtgt ggacggcaga 120

tgaactggag gacgggtggc atggtgcagc gggagatcgg cagcgccaga tctggccgcc 180

cctgcctccc ctgtgtggcg agctcctacc cggccggatc cggtctgctc ctctgcgggc 240

cgacaggtct cgcgccgttg gggtaagggt ggcggggatt ccaagaccgg gagaaatcct 300

aggccggtct cgccgggctt g 321

<210> 4100
<211> 247
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088c11b1

<400> 4100

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tggtcgaggt tcggcacggc acagggaacc gtacatcgat tcttattccc accagttgac 180

aatccacaag acgatgtgcc acctggactg acacctaata tgacactttg gataccagct 240

attgcac 247

<210> 4101
<211> 349
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088d07b1

<400> 4101

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tcccagtccc aggagttcta gagcgtcaga gatctgatga gtggtgtcgc gtggtggtgt 180

ggtgctttta ggttggcaga ttagctcgtc ttggccaatg ttcttgttgg tgcgtgtatc 240

gagggtggat ctggttggaa tggaatgctt gcaatcttgt tcttgtctgc tgcctgtgat 300

ttgttcatgg gagtaatctt gatgaaacgg atttttgttt ggttctgac 349

<210> 4102
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088d10b1

<400> 4102

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actccgtcta cgccgccacg aaagcgtacg ttgaccagtt ctcaagatgc ctctatgttg 120

agtacaaggg caagggcatt gatgtgcaat gccaggtgcc cttgtacgtg gcgacaaaga 180

tggcatcaat caggaggtct tccttccttg tgccatccgc ggacacctat gctcgtgctg 240

ctattcgcca cattggctat gagccgaggt gcacaccgta ctggccacac tctgttctgt 300

gggtcttgat ctcccttctc ccagagtcac ttgtggatag tacacgcctc agcatgtgca 360

tcaagatccg caagaagggg caggctaagg atgccaagaa gaaagcgcag tgatgattcc 420

gctgctagt 429

<210> 4103
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088d12b1

<400> 4103

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cggtgaacga attgaggctg cattgaagga tatggctact gtactgaaac aagcaaatcg 120

ggctgaagaa gccgtcgaag cgataagatc tttccgtgac cgttgtccaa atgaagctca 180

ggagtctctt gacaatattc ttcttgacct atacaaggaa acacatggac atgaagctgc 240

ggtggcgatg aagacgatat taacatgagg ttgcggcggc gatgacatcg acatcgacac 300

gaagctgcgg cggcggtgac gacatcgaca tcgacacgaa gctgcggcgg cggtgatgac 360

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gcggcggcga 430

<210> 4104
<211> 194
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088e08b1

<400> 4104

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aggaagaggc gcgccctcat acggaacggg tacagcccgt acgtgcctga tgaagaccag 180

aagggtttga tcaa 194

<210> 4105
<211> 258
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088e09b1

<400> 4105

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cctgcaaggt gaacacggtt tatgaggaca aaaacatggg catcctcctg tacactgatg 120

acaatggtga cttggagggc gagggcttgg atgaaggccc aagactaaca ctgcgagata 180

tggagatatt ggccaaagat agagactcga agaacacgac agacgattgg cgggagagag 240

cgctgtggat cgtgggcg 258

<210> 4106
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088e11b1

<400> 4106

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catgatcatg acatgctggc gctttttggg gggccatcaa gagatcgatg atccatctcc 120

taggtcataa ttaggctatc cgctgaattg gtttgcccca cctgtgaccc tgtagtggca 180

ctgtatcttt ctttttgaac tgaccacctg tagtattttc taatttggcc agaagttcat 240

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ctgccaccga tcattaactc gccgaatga 329

<210> 4107
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f01b1

<400> 4107

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ttcactagga gcgaaaagga gctaccatgg gtatttcatc caagtggatc aaatcacttg 120

ttgggataaa aaagcattgg aaaagctcaa aatggcgaaa gcagcagaga aaggagctct 180

gctgctcagc tgctacacaa acggaaacat tctgtggata ctgaaggctc ccttgcagtt 240

gcagaacaca cagtgcaaat tgaaccattg gctagtgaca ccaatacaca gacaatttca 300

tctgagactg agctaaatac aaaggagcat caggctgcaa cagttattca atcagccttt 360

cgagctttct tggctag 377

<210> 4108
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f03b1

<400> 4108

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agctccaagc ctaccaacca agtctacgac caccgggagt gaaaaacaaa aggcgataag 180

ttaaattaaa atcctcgcga aaaggaacaa aacatacgaa gcccaccaag gaatagcacg 240

atttgcaagg tgatggggtc ttcttaacat gggcctagtc ccacaagagg ttgatcatcg 300

agttggccag cccggcctcc ttgaaggtct gctcgctcga g 341

<210> 4109
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f05b1

<400> 4109

gaggagcgag aacgagggtt tctttgacgt gggcaccaac tcctcccagg ggggctcgtc 60

cctgtccctg ccgcctctag ctgccggtcc agccgtgtgc gtcctccggt ccgccgggga 120

cttcgccggc ggcgccttcg tcggatctat ctttggatat ggacaaggtt tgctatctaa 180

gaagggtttg aagggctcac tcggcaatgc agggtcttct gccaaaagtt ttgcagttct 240

ttctggcgtc cagagtttgg ttttgtgctt gttgaggaag ctgcgtggga aagatgatat 300

catcaattcc ggcattgctg gttgttgcac aggtcttgct ttgagttttc cagggacacc 360

acaagcgctg ctttagaact gcgccacctt cgcagcattc tcatgcatca tggaagggct 420

caacaagcag cagaccgcga tggcgcacac cctcactggg aaacgcctga cctttgcaca 480

<210> 4110
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f06b1

<400> 4110

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gctgcagacg agaagcggct gaggcgaaga ggaatcgacc atggcgaccc gtatccagtt 120

tgagaacaac tgtgaagttg gtgttttctc caagctcaca aatgcctact gtctggttgc 180

aattggagga tcagagaatt tctacagtac atttgagtct gagcttgcag atgtcattcc 240

tgtggtcaag acctctatcg gtggcactag aataattggt cgcctctgcg ttggaaacaa 300

gaatggactt ctcttgccac acacaaccac tgatcaagag cttcagcatc tgaggaactg 360

catacctgat caagtggttg ttcagcgcat cgatgagagg ctgtctgccc ttggaattgc 420

atatactgca atgaccatgt tgcgctcaca cacccttgac ctgac 465

<210> 4111
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f07b1

<400> 4111

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tacaaacaaa cgctgttagg gtagccaaga agctatttag tcggtggcca gaggtcagag 180

gtcagttgag ttgttgatta gtcgtcattg cgcaattctg ctacaggttg gcgaaaaatg 240

tgtgaactct acagactcta gtccatgtgt catgtgcgag ttgctgcaaa cagaacaaga 300

cactcgtggc tttgcatgga cacgacttgg cattcaaaac tttgctagaa gggttgagcg 360

ctctttgctg agctctg 377

<210> 4112
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f09b1

<400> 4112

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cggcgagaga ggcaacggag ccactatgcc tggagcagat gagacgtttc cggcagagtc 120

gagggcgacg gtgttctttg gggctgtgac atctaaatcg gagccgctga cctttgaaga 180

gtccctcaga tttgtcaaga aagtgaaggc tcgcaactac atgctgtacc tgtcgctgtt 240

tgacatcctg ggcaggacag agctgtccca gctggaggcc taccaaacac tgcagctgct 300

gttccgcgac cacccggacc tgcacgaagg gctggag 337

<210> 4113
<211> 279
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f10b1

<400> 4113

cgtccccggc gacggcgagt ctacatccag gaagaagatg ttctggaccc gattgcaatt 60

ttcagatcca gtttagggtc cttcttgtca aaatcaaggg cttaggtgtt attttccttt 120

tatgtgagtc cttgtgtggg ctttgtgttg taaccgctga agttttaatg aagatctagg 180

cccttcatgg cctttcctgg tcaaaaaaaa agagagagag ctggactcac agctggaaag 240

gtttcatacg agaattgttt ggaaacaaaa aggaccgag 279

<210> 4114
<211> 481
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088f12b1

<400> 4114

ctgtccgcag gaacgggggg ttattcggga gcttttctgc tttgctctac agaagatcgg 60

cagcaccaag gctgaatacc gaagagttca aactttggag ctggcggact gcatattgaa 120

atcctgggtc ggcgacgatg tctcgagcgc atcaaaggtt ttgaagaagc atatggctct 180

gctgtgcgag ctgatgcagg aaatcctcac aaagatgccc gaaaacaagt cgcgtcgcca 240

ggaggtgcgt agattctgca cgcgggctct gcaaaccgtg acgaggctca atctgaaaga 300

gaagtttcag aagaagctaa gcccggaagc ctacaccctg tgtgatgcac agctgggagc 360

tgcatttgtt cccttccgac agtgatgcgt gtgaatccat ttctgaagac ggtgaattgc 420

accagaaatg actttgggct gaattaactc tgcttgtaat atcagctcct taggttcgat 480

t 481

<210> 4115
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088g01b1

<400> 4115

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gcagcagcag cagcagcagc ctagtcgtca tcgtcgccga tggcagggtt cggcagcctg 120

gcgtccaaga ctaataatgt ggtggtggcg ggcgggctga cggagttcgt ctctggggtg 180

tactactaca ccatgtgggc ggtgggcagc accgacgagc tgcaggtcac tatcgacaag 240

tttgaggacc tgaagaagaa gg 262

<210> 4116
<211> 416
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316088g02b1

<400> 4116

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ggaacaaagt gcctctccag caaagcaggc agagcccgag ccgcgcctcg aggaggaaca 120

gagcgttttt tctccaatct ctcgcgtccc gcactggttc agccgccgca cggatgcctc 180

cgagctcatg gggttcgcgg cgcgcggcct gctcgggaat ggcaggtcca tgcaggaggg 240

gtaccggcag ttccaggagc cgtcggtgtt caacgcctgg tgggaggctc acacgagcag 300

cgcgatgatg cccaggtgga gcaccgcttg acctgggccg gcctaaaggg gtgcatgcct 360

tccctttga cagttatnca caaggacgcc gacacgattt aaatagaatg cctctg 416

<210> 4117

<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088g08b1

<400> 4117

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cggaataacg gcggtgctga tctctcttct cttcactccc gtggagaaga ggtttttgtt 120

tttggatgaa gaagaaaatg tacccctaat cagcatgcgc gcggttgttg tagaaggaga 180

agatgtaagt tgatgcagat gtaatcaatg gaagttggtt aaatttcgta gtaaatgaaa 240

gaagacctag aagacacaag gactaaattt ggaaactgat cgt 283

<210> 4118
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088g11b1

<400> 4118

ccggctcgag gggatatttt tatacgagga gcagcgattg cctccactcg agcccgatgg 60

cggttcctcg cgctgcccct ggcgctgctc ctcgcgatcg gctcgtcgcg cggcctcgac 120

gcggcgccca agcccccgt ccccaaggcc atctccgacc tgagggaggc gatcgtgaag 180

gggctggggc tccagtcgga ggagctcaag gtgtccgggt tcgacgtgag ggacgcgctg 240

gtggggcacg cggtggcgta cgagttcgac atggaggtcg ggaggaaggc cgtgccggtg 300

cggctgctcg aggacgtcaa ccgctgggac ttcgtcgacc tgcccatctt ccggtcccag 360

gccgacgccg acgacacggc gctcgccgag attgggcgga ggagctttga ccccacgct 419

<210> 4119
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088g12b1

<400> 4119

aaaaaaaaat tccatttttc ccccaaaaaa aaaaaaaaaa aaaaaaacta actactcaaa 60

aatcaaaaaa ataaaaaaaa ataaaaaaaa aaaacaaaac ggggggggge ctttaaaggg 120

accaccgctc ccctcccggg catggcaaaa acaattcctt tataagggtc ccccaaaaaa 180

aaataaaagc cgcgtttttt aacacccctc ttatgggaaa aaacctgggt acacccaacc 240

caacgccctt gaaaaaaaac cccattttcc cgtgggggaa aaacaaagaa agggc 295

<210> 4120
<211> 151
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088h03b1

<400> 4120

catcatcctc tacatctaat gagattatag ttcaaatcat acattcagaa ttatccaatg 60

tggaacttat atgcattgag gttacattta aaaaaaaaaa tacaatcgat gggaaaaaaa 120

caaaacaaaa aattaaaatt taaaaggatg a 151

<210> 4121
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088h04b1

<400> 4121

ctcgcgccgc cgcgggggge gttttagtac acgcggcgtt gatgctcacc cacaagacct 60

tccggatcaa gcagaagctg gccaagaagc agcgccagaa ccgccccatc ccctactgga 120

tccgcatgag gaccgacaac accatcaggt acaacgccaa gcgcaggcac tggcgccgca 180

ccaagctcgg attctaatcc ggggatgacg gcgatgacac ccgttgctgc cgacgggaga 240

agggtctagg gtacctaggg cttatgatgt ctcgctgctt ttgcatgcta gcaagtgact 300

ccgggatgcc agttttaaga ttccgcttgt gctgaaagat attattatta ttactgcttg 360

tagcctacct tgggataccg catattctgc tgattatgga acccctttta tcctgcttaa 420

aaaaca 426

<210> 4122
<211> 381
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088h07b1

<400> 4122

gaaaatctac agggctaagc aggatggcgc tgtgctcttg ggtatgcgtc atccttggga 60

tggccatgat gatcacgcgc atggtcatgg acatgcacac gagcatgagg cttcgacgtc 120

gtcatcgccg tcccattgag ctcgacgctg aaagcggctg acagagaccc tgacgcgttg 180

catgtttcga cgcaagtctc tgctaataaa aaacaatcac aactatcatt atttacccct 240

gttgtttgca agaatttttt tttagcacac aaactggcct tgttgtgtat ttcggtttgg 300

agctgtggcg tccgtgggaa tgcttccgcg tgcatgtgtt gttgcttatt gtgatcgctg 360

cagctgttgt cgcacgctct g 381

<210> 4123
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316088h12b1

<400> 4123

aaggatggct ggaaggagtt tttttcggtc ggatgtctat ttcttcacct atattattct 60

ctcctgtctt tcttgaagag ttttttttttt tcgcttagct tttttgatag gtttcactga 120

ggagaccact agagaatgta atacgctggt aacactagaa gaaatatgaa tgctattttt 180

tgctagtttt atgttactgg tgaatgaatg cagtatttta gtggcaaaaa aaactaacta 240

aagctgaaag att 253

<210> 4124
<211> 523
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089a01b1

<400> 4124

cccctgcttc ggttttgttc agtatgagca ggacgaatca gtacagtatg ctatcaatga 60

actcaatggg atgcttttga atgacaaaaa ggtttatgtt gggccttttg ttcgtaaaca 120

ggaaagggaa aatgtttttg gcagtcccaa gttcaataat gtctatgtaa agaatctatc 180

agaatctacc actgaagata atctgagaga attgtttggt aattttggac ctataactag 240

tgttattgta gtgcgaggcg atgatggtaa atccagatgc tttggattcg tgaactttga 300

aaatccggat gatgctgcat gtgctgttga ggatttgaat ggcaagaaat ttgatgataa 360

ggaattgtat gttggtagag cccaaaagaa gtctgaaagg gagatgncat tgaaggaaaa 420

ttttgagaaa agcaataaag agacagctga caggaaccaa ggcactaact tgtatttgaa 480

aactttgatg gagtgttgat gacgatagaa gtaaaaagaa ctt 523

<210> 4125
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089a03b1

<400> 4125

ctttgctttt tgagccagag aggaacgatc tgggggagta cttcggtgag cagctctgtg 60

gtttcacatt cactgccaat ggctgggtgc aatcttatgg atccaggtgc gtcaagccac 120

cgattatcta tggtgacgtg agccgcccca accccatgac tgtgttctgg tccaagatgg 180

cacagagcat gactgctcgc ccaatgaagg gaatgttgac aggccctgtc acaatcctta 240

actggtcttt tgtcagaaat gaccaaccga ggtttgagac ttgctaccag attgctcttg 300

caatcaagaa ggaagttgag gatcttgagg caggcggtat tcatgtcatc caaattgacg 360

aggctgcttt gagagagggt ctgccactcc gcaagtctga gcacgctttc tacttggact 420

<210> 4126
<211> 483
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089a04b1

<400> 4126

cttttcctag gtagcctnca tcaactctag aagcgggggg cttctttgaa gtggtttgat 60

cttatcatac cgggaagttc tcaatgaagc acaggttttt gatctctctg aagagtcccc 120

tgacaaggtg ctgcacaggt tgtatgccaa cttccaaagg ctcaagtcca acggtgacct 180

tcttgctatt caaatagaga agagcctgag actaattgtt gctggtggtg atggcacggc 240

aagttggctg cttggagtag ttagtgatct taagcttaca cactcacccc ctgtcgctac 300

tgtgcctctg ggaaccggaa acaaccttcc tttttcattt ggatggggaa agaagaaccc 360

agctactgac caagaggcag tgaaatcctt ccttgggcta gtgaaagaag cangagaaat 420

gagcattgat agttggcata tcatcatgag gatgcgagtt ccacaggaag gtccatgtga 480

tcc 483

<210> 4127
<211> 495
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089a05b1

<400> 4127

cccctggcta gacagtgctg agaccatccg caagggactt gttcttggtg tcaacgtcaa 60

gattatcaca ggtgaccaac ttgctattgg aaaggagact ggtaggaggc ttgggatggg 120

cacaaacatg tatccttctt ctgcattgct tggccaaagc aaggacggtt cacttgagtc 180

acttcctgtt gatgagctga ttgagaaggc tgatggattt gccggagtct tccctgagca 240

caagtatgag attgtgaaga ggctgcaaga gaagaagcac attgttggta tgactggcga 300

tggtgtcaat gatgctcctg ctcttaagaa ggccgacatt ggtattgctg tcgatgatgc 360

tacagatgct gctcgaagtg cttcagacat tgtgcttacc gagccaggtc tcagtgtcat 420

tatcagtgct gtcctgacca gcaggtgcat ttttcagagg atgaagaact acacgatcta 480

tgcagtttcc atcac 495

<210> 4128
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089a06b1

<400> 4128

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gtcatggctt cctactgctc tgagctccag taccttgcca acccggtgac caaccatgtc 120

cagagtgctg agcagcacaa ccaggacgtg aactctctgg gccttgtctc ggccaggaag 180

accgccgagg ccgtggacat cctcaagctc atgtcctcca catacatggt ggcgctgtgc 240

caggccatcg acctccgcca cctggaggag aacatcaaga cctccgtgaa gaactgcgtg 300

acgcaggtgt cgaagaaggt gctgaccatg aaccccaccg gcgacctctc cagcgcgcgc 360

ttcagcgaga agagcctcat caccgccatc gaccgcgagg ccgtgttcag ctacgccgac 420

gacgcctgca gcgccaacta cccactgatg cagaagctgc gcgccgtgct ggtcgaccac 480

gc 482

<210> 4129
<211> 264
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089a07b1

<400> 4129

ccaatacccc cggaggcacg accgcacaca agggggggc tcaataaaaa aagcggggcg 60

aacaacaccg ccaccggcac gaacaagaaa ccaaccaccg ccaaccaagc ccccagaaac 120

aaccaaaggg gcgcccacag cacggaagac gaaaaaaccg agacgcacaa cccccaaaaa 180

aggagcgggg caaccaggag ccaccacacg gacacgaccc caacggacac caagaagaag 240

cccaagacca cgcggcgaaa accc 264

<210> 4130
<211> 490
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089a08b1

<400> 4130

ttccatgcgt ccgcggacgc gtgggtgatt atggaaggtt agttacctgg tgttggatcc 60

agcatggaag cacgggaaag attttacact tgattacctt ttaccttcca ctttggggtg 120

ccattctcta caatgggttt acgtactatc aagtaaaccg catgctgaac aatgcgacac 180

ggatggctgt tggcatgagt gatcgatcaa gtcaatctga cgtgagggcg gacaagaagg 240

catttaaccg gtggggttat taccctctga ttttaatcgg ttcatgggct ttcgcgacaa 300

tcaatcgcct gcatgacttt gctaatcctg gtcacaagat attttggctg tccatccttg 360

atattggatt tgctggactt atgggccttt ctaattcgat tgcttatggt ctcaactctt 420

cagtgcgcag agcatttgca gaaagattng acatgtatct acccgagaga atcaanaggg 480

agcctcctac 490

<210> 4131
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089a09b1

<400> 4131

taaatgcacg gcagcaaatg tacagtcatt ggctggggtg aacacgcttg gcgtgtccat 60

ggcacgcatc gactacgcgc cgggaggcca gaacccgccg cacacccacc cgcgtgccac 120

cgagatcatc ttcgtcaccg aaggagtcct cgaggtgggc ttgatcacca ccgccaacaa 180

gctcttcact aagactgtca ccgtcggaga cgtgttcgtt tttccgcgtg gcctcgtgca 240

cttccagcag aacaggggggc gtggccctgc atccgtcatc gccggcttca acagccagct 300

ccagggcaca caagtcatca ccaccacgct cttcgctgcc gagccgccag tgcctagcga 360

cgtgctggcc aaggccttcc gggtcagtaa cgaggacatc gacgccgtca aggccaagtt 420

caagtagtgt gggtgcctcc gcagttggca actctcca 458

<210> 4132
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089a10b1

<400> 4132

tgcgtaccag gagcaagaga cacacattgg ctggggtgaa tacacctggc gagggcatcc 60

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agatcatgtt cgccaccgac ggagcactgg agggggactc taacagcacc gaccacaagc 180

tcttgactaa gactgtcacc gacggagacg tgagcggtgt tccgcgtggc ctcgtgcact 240

tccagcagaa caggggcga ggacctgcat ccgacatcgc cggctacaac agccagctgc 300

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<210> 4133
<211> 385
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089a11b1

<400> 4133

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gctgtgggag ttaacatcga agttggtgga atagaggttg attccatgtt tagaacaagt 180

atacctagca tctttgctat tggagatgtg gcagcttttc cgctcaagat gtatgataga 240

atagctcgag tggagcatgt ggatcatgcc agaaagtctg cacaacattg tatagaaaca 300

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gagtatgaaa gaagcttcag gaaaa 385

<210> 4134
<211> 267
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089a12b1

<400> 4134

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aagcagaggg agtcaaggga ggaagccacg acaaaagagg aaccgacagc ccgccaccgc 180

acgccgcccg aacaacagaa ccgtgagggc agccggacgc ggacgaaaga agaaccgccg 240

cccacggagg cagaacccaa agaggag 267

<210> 4135
<211> 439
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b01b1

<400> 4135

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ggtatgtcgg gggcgggggc ggaggaggcg gtggtgggcg agagcttcga gttcgccttt 120

gacaaggagg ccttctccga caagaagctg cgggtcgagg tcgtcggcag cgacgacgcc 180

gccacccgca agcgccgccg cgaggacgac aaaagtgatg aaggagaatg tgtcgattct 240

tcttctatag tgatggctgc accaatttta cgagttacta ccatgaatat caattcggcg 300

attcttgctg taaaaagtcc tttctttttc aagcttttct caaacggcat gaaagagtct 360

gacagggaca ggcaacactt tcgatcgctg attcagagga aaatgccctc atggagcttt 420

tgtactttat gtatagtgg 439

<210> 4136
<211> 476
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b02b1

<400> 4136

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ttttagccgg agaggttctt gggcgaggag agcaacgtgg acgccacggt cggcggcaag 120

gtggacttcc ggttcctccc gttcggcgtg gggcggcgca gctgccccgg tatcatcctc 180

gcgctgccca tcctggcgct catcgtcggg aagctggtga ggagcttcga gatggtgccg 240

ccgccaggcg tggacaagct cgacgtgagc gagaaaggcg ggcagttcag cctgcacatt 300

gccaaccatt ccgtcgtcgc attccacccc atctcaccct gagcaattgc atcttcaacc 360

caatagcctg atccacaagc acaatttttc ttcagattac aaatacagta gattacacga 420

aagtatgtca gttgatttat ggggattaca ttttttttct ttattaaaag gacgat 476

<210> 4137
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b03b1

<400> 4137

atcttaatta ttgtgcttgc taacatgtac caggggcctg ttatgattac ccctggagtt 60

gatgcccaag gtgtggctat tgcaccagag aagatgcagg agcactttga ggacttctat 120

gaggatatct atgaggagct gagcaagttt ggtgaggttg agaccctgaa tgtgtgcgac 180

aaccttgctg accacatgat tgggaatgtc tatgtccagt tcagggagga agagcaggca 240

gtggctgctc acaatgccct ccaaggccgc ttctactctg gtcgcccgat cattgtggag 300

tactcccctg tgacagactt ccgggaggcg acctgcaggc agtttgagga gaacagctgc 360

aaccgtggcg gctactgcaa cttcatgcac gtgaagcaga ttggtaggga gctcaggagg 420

aagctatatg gtgggcgttc caggaggagc cacgggagga 460

<210> 4138
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b04b1

<400> 4138

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gttagcacag cgcgcaagct cgacgggggg ctcgtgccgc tcctcgacgg catcgctgcc 120

ggcgcctcgg tcgtcgacct gcaggacgtg ttcatgcgcc tgacgttcga cctcacggcg 180

atgttcatat tcggtacgga tcccggctgc ctggccgctg acttcccgcg agtgccattc 240

gccgcggcca tggacgaggc cgaggcggtg ctgttctaca ggcacgtgac gcccactgcc 300

tggcggaggc tccagaccta cctaaacatc ggccatcaca agaagatgac caaggctcag 360

caggtgctcg acgcgtctat cgccgagttc gtctcgctac ggcgagagcg cgcggccagt 420

gccgacgcca acgccgatgg aagcgacgac gccgctgatc ttctcacgtt gtacatggca 480

tgccaagacg agctaggc 498

<210> 4139
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b05b1

<400> 4139

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gagtaacaca cggcgccaga cggagaacga aaaggaaaca ggaacagaag gcaaacgggg 120

agaggacaag gtcacgagac acggagacca tcatgcacac gaaaggacgg aacactacaa 180

gccatggaag gatag 195

<210> 4140
<211> 500
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b06b1

<400> 4140

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gaggatatgt tccattggca ggcaaccatt atgggtcctc ctgatagtcc ctatgctgga 180

ggtgtttttct tagtgaatat ccatttcccc ccggactacc ccttcaagcc tccgaaggta 240

tcgttcaaga caaaggtctt ccatccgaac atcaatagca atggaagcat atgcctcgac 300

attctgaagg agcaatggag tcctgctttg acaatctcta aggttctgct ttcaatctgc 360

tcactgctta ccgaccctaa cccggacgac cctctcgtcc ctgagattgc ccacatgtac 420

aagacggatc ggtccaagta cgagacgaca gcccgcagct ggacgcataa gtatgccatg 480

ggatgatccc gagcccatgc 500

<210> 4141
<211> 525
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089b07b1

<400> 4141

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agaaggcgcc atggggctct gggactcgct cctcaactgg ctccgaagcc tgttctttaa 120

gcaggagatg gagctctccc tggttggcct acagaatgct gggaagacat ctctagtcaa 180

ttcaattgct accggtggct acagcgagga catgattcca actgtaggct ttaatatgcg 240

gaaagtcacc aagggaaatg tcacaattaa actttgggat cttggagggc aacgtagatt 300

ccggactatg tgggagcgct actgtcgtgg agttactgct attttatacg ttgtcgatgc 360

tgctgaccgg gatagcgttc cgattgccaa aagtgaattg catgacctgc tgacanaaca 420

gtctttatct gggatcccct tacttatcct tggcaaacaa atngacaagt cagaggcact 480

ttctaagccn gcattagttg atcaactagg cctggaatct ataaa 525

<210> 4142
<211> 493
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b08b1

<400> 4142

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ttcgcgccgc aactccgcca tgaagttgaa catcgcgaac cccaccacgg ggtgccagaa 120

gaaggtcgag atcgatgacg accagaagct gcggaacctt tatgacaaga ggatctccca 180

ggaggtagtt ggtgatcttc tgggtgagga attcaagggt tatatcttca agatcatggg 240

tggatgtgat aagcagggct tcccgatgaa gcaaggagtg ctaacttctg ggcgtgtccg 300

ccttctgctt cacaggggca cgccttgctt ccgtggtttt ggcaggcgta atggtgagcg 360

caggaggaaa tccgtccgtg gttgcattgt cagccaagac ctatctgtta tcaacttggt 420

gattgtcaag aagggtgaga atgatctgcc aggccttact gacactgaga agcccaggat 480

gaggggaccc aag 493

<210> 4143
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089b09b1

<400> 4143

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tatttcagga aaggatgtgt ttcggaggcc atggagcagt atgaggaggc aatatctgct 120

tttcaaatag ctttgcagca caatccacaa aatacagaag tcgcgagaaa gatcaagagg 180

cttactcagt tagcaaggga acagaagcga gctgttgatg tggagaacct gcgttccaat 240

attgacatca ggaagaactt gcagtcattg aaaaaggagc tggctacaaa gtatggagat 300

gcagaaatgg gacaaaatat attctcattt gttatcagtg tgattgaaac agcgatt 357

<210> 4144
<211> 452
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089b10b1

<400> 4144

taactaacca caccatttcg caatctcgca agcgacgctt ccgtctccac caccaggaac 60

cagaccgcgc actcctcctt agctcgagcc cagaccggag ccctgttccg ccgtggatcg 120

ctggaggaga gggccaccgg ccggatcccg acgggccaga tggtgggcga cccccgcggc 180

gggggcgagt agcacggctg cgatcggcgg cggacggatc ggcggcgccg caaggcggcg 240

ggggccacca tgtctgccgt agtgtgcggc aagaggtcct ccatcttcgc cgacgagctc 300

atcccttgct ctccgccttc ccctccccac caccaccctt ncaagcgggc ccgctgctcc 360

ccgacccgcg ccttcgacga cgccgccgcg gcccaccggc gggaggcgct gctccaccac 420

cttcgctccc tcttncctca catggatccc ca 452

<210> 4145
<211> 320
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089b11b1

<400> 4145

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tcaacccaaa cacgcaacga caaatcgagc accaagcggg ggcaggacac gccgaggagg 120

gcgaggcgag aggggcgacg accacaaacg aacgggcgag aaggagagca aacaagccgg 180

ccagggccag tggcaaggcg gggaccggca ggggactaat ctaggacgcc gcatggcagg 240

aggagagacc atgtcatgga taaggaggtg gaagatgatc gacaggtcat tccatgaact 300

aagacgttgc acatcatcta 320

<210> 4146
<211> 405
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089b12b1

<400> 4146

tctacgcgcc tgaatcattc ggccagaact aaagagnggg gccatggttc catccgaagg 60

ccattccatt taggacaatc tctctgatgt tttccgcggg gtcaaatgtc aaaaacccgg 120

caagaagatg gaaacatcca aatgttccaa agctggtcct caagccgtta aatctacagc 180

gagcaattca cctcctgagg caaagtcctg caaatcatca gatatggtaa atgttgcttc 240

agacataaag acatcaaagt cccttccttc aacaccaccc ctagtatcca gagcagatcc 300

ttcatcctct aggtgccatt ctcttcatgt ggactcattc tcaatgagga aagcacgtcg 360

atcacctgga catcaactat gtaggcagat ctcggacagc aagat 405

<210> 4147
<211> 342
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089c01b1

<400> 4147

gcgtaagtta cacccggcga ggagcagccn aagagggacc gtaagaagca cagggccacc 60

aaagaggacc gcgccaagag caagaacagg aaatacctga ggaagccgaa gaaggtgaag 120

aagagcaacg gccagatgca cgccaccaac gagatcaagg agaagaaccc aaccacgaac 180

aagaacgagg gcaagaggct gcgacaccag agcaggacag gctaccacaa catgtacaag 240

gagtaccgtg acaccacact aaatggagcc gtggagcaaa ggtacacaga gatggccact 300

cgccaccgtg agagaacccc ctgcaagcag agcaacaaga cc 342

<210> 4148
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089c02b1

<400> 4148

ctgttctttc attgacatcc gtctgccaat gttggggtat gtttcctgag aaaagcgccc 60

agtctatgac cacaacaaga aggctggtgc gatgaatgct ctagtccgtt catctgctgt 120

catgtcaaat ggacctttca tcctcaacct ggactgtgat cattatgtct acaactccca 180

agctttccgt gaaggcatgt gcttcatgat ggaccgtggt ggtgaccgta ttgcctatgt 240

ccagttcccc caacggtttg agggcattga tccatcagat cgctacgcca accacaacac 300

agtcttcttt gatgtcaaca tgcgtgcatt ggatggtctc atgggaccag tctatgtcgg 360

cactggctgt cttgtcccgc ctgttgcact ctatggatct gaccctgcgc gctccacaga 420

aca 423

<210> 4149
<211> 377
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089c03b1

<400> 4149

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ccactccaaa gaggagaagc tcgccgtcta cgaacacgtg cccgggcgca gcctcttcga 120

gctcctgcac gagaacagag gcgagggcag aatgccgctg ccgtggccgg cgaggctgtc 180

gatagcgaag ggcatggcgc gcgggctggc gtacctgcac cagtcggtgc cgtttttcca 240

ccggccgccg cacggcaacc tcaagtcgtc caacgtgatc atcctgtcga cgcccaacgg 300

caagcaccag catccgcacg tggtgccgaa gctcacggac tacggcttnc acccgcttgt 360

tccgcaccac gcgcaca 377

<210> 4150

<211> 483
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089c04b1

<400> 4150

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tcatcctctc cgagaagata tacctggggg gcgtcctcgg ctccgtcctc atcgtcatcg 120

ggctctactc cgtgctctgg ggaaagcaca aggagaccca ggcggagtcc gcggccctgc 180

gggaggcgct gcctatggcc atggcctcct acacctccaa ggtgaccgga gacgccgcgt 240

cggccggacg atccggagtg cgagaaagcc aacggagcag ccaagccatc ctccaacgga 300

cacggagcta gtgcagtctg atcaatcgat tccaactgct tccaagtgct aactggcaat 360

gtctcgtcac tgacgttgca tgcactaggg ccgtgtgcgc tgcatgccag ggagagtgga 420

ataattatgc ggcgtgccat tatttttggc ctctgatgat ttcacaacca cgacttagta 480

ctc 483

<210> 4151
<211> 510
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089c05b1

<400> 4151

ccctcgatcg ccacgcgtcc gtccttctcc acctgcggcc gttgccacgg tcaggccggc 60

gtggtggtgc gcctcccgcc tcatcaccca tctccatcca ccacaacacc atcaccctgc 120

accaccagcg ccaccagcac ccccaccatc attccgcgcc atccatccac catctccagc 180

caccgccgca tctggcgcga cccaccagac ccaccagact gcccgtctgg tgtccggcgc 240

gagcacgcca tccaccactt ccacccctcc ctctctgttg ttgctgctcc tccctcttgc 300

ttcgtcctgc tgcttctctt cttcccctcg ccttcctcaa ctgctgctgc tcccttctta 360

ccccaaactc tactgctgca tcttcctttc ttctccttgt ccctactact gctgctgaac 420

cgctcctcct cttgctgtgt ctctgctact cgctgctccc ctactgctga tcctttcctc 480

aactctctct gctggctctc tcatgccact 510

<210> 4152
<211> 264
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089c07b1

<400> 4152

cgccttggtt accagcccac cggcagccaa cccangggga gggttgataa aaaaaggggg 60

tcctaacccc cccccgcnan gacggccacc cacaccaccc cgccacgcac cacagacacg 120

gcaaagccgg ccgcaacccc cccccacaac ccccaaacac acccccacaa ccccaccccc 180

cacccaaacc gagaaggcag gagccacaag aaggaccgcg gagcagaccg aaaagccaaa 240

gcccagcacc cccaacggca ccag 264

<210> 4153
<211> 458
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089c09b1

<400> 4153

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aagcttttgg tgcctcttgt aagcgcatac cgctacgatg gcccggaggt gaacacatcg 120

ttggcacact ctgaagccaa aatactcaat ggaaagatca acgagaaggc ctacagtgat 180

gatgagatca tcaggattct cactacaagg agcaaagctc agctacttgc aacattcaac 240

agctacaatg atcagttcag tcaccccatc actaaggacc tcaaggaaga ccccaagaac 300

gagttcctct caaccctgag ggcgatcata aggtgtttca cttgccctga cagatacttt 360

gagaagaatc atccgttggc ccttggaggc gtcggcacag acgagaacac ncttacgagg 420

gtcataacca ctcgcgccga ggtggaccct gaggtgat 458

<210> 4154
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089c10b1

<400> 4154

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cgtgatcgtc gtgtccgtcg tggtgggatt ctttggggtc ggaagcgccg tgctggggct 120

catcgccgag ggcaccaagc tcgagccgaa tgacatctcg atgtccagga ccgagtgcgt 180

gtaccccgcc aacccggcgt tcgcgctggg gctggtcgcg gcgctcctgc tgctggcggc 240

ccagatcacc gtctcggccg ccggccgctg ctgcggctgc tgcaagcccc ggggcgccgc 300

cttctccgcg tccaggcgca acatcggcgt cgtcttc 337

<210> 4155
<211> 413
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089c11b1

<400> 4155

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gtttctgtcc agaattcttg gacatgataa agtttgggtc ttagatggag gtttccctca 120

gtggcaagct tctggattca atattggaag cagctgcctt gatgatgcag ttctgaaatc 180

cagagctgct aatagtgctg ttgaaacagc ttataatggt gaattggcaa atgctgccac 240

atttcagaca gagtttcgac atcagctatt gtggacacta gaaaaggtca aacacaatgt 300

agctgctaag gctcaccaca gagttgatgc ccgagtaaag ggcagatttg atggtgtaat 360

gccagaacca agggaaggag taagaagtgg gcatataccc tgaactaaat gtg 413

<210> 4156
<211> 475
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089c12b1

<400> 4156

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gctcaacgct ggtctgacca cccagatgct gctgagcctg ttccgggtga agggcatcgt 120

ccactggggc atcgctggca acgccaacga ggacctccag atcggcgacg tcaccatccc 180

cgaatactgg gcccacgtct ccctctggaa ctggcagcgg ttcggcgacg gcaaggataa 240

cgagctgtca ctggaggccg ccggcgacta cacccgggag tacggcttcc tcaacttctc 300

cgactacacc gtggggcaga gcaacccggc gctatcagcc aaccagctca acagcatctg 360

gtaccagccg gaggagatct tccccaagtc cggcgagccg gaggagcggc agcacgcgtt 420

cttggtgccc gccagcaagc ggtactacga gcttgcgaag aagctgaggg catgg 475

<210> 4157
<211> 305
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089d01b1

<400> 4157

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actcacgcag cacgcgagac ctgggctccc agagggaagg tcacacgcta aaagacaaat 180

acaggagtga cccagagcga gggacaaaaa gaaacgaaag ccagccattg cggcacgcga 240

acccgacaac acacggggag aatgcaaaag ctcctgcaaa ggacacaagg ctggatgaga 300

gcacc 305

<210> 4158
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089d02b1

<400> 4158

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tacaggcagc gttttgtttc ttcccccgcg ccaatccagt cttgtgatat agatgtgtca 120

tctctctcag catgacaagt tcacaggtat tctgcttttg atgaacttgc tccacacctg 180

cagtgacaag aaaacgctga agaagtggtt cttcatcgac aagacagcgg gctaagaaaa 240

tcctgctgaa agagagacga ccaccgaact gaccacacta tttcttcgtg cgacccgatg 300

gatttgagca acggctcacc ggtcatcagt gatccgatgt caatgagcca ctcgctgatg 360

ggagtgctga ctcccaacat gatgccgatt tcaatcaggc ccggaagtta ctc 413

<210> 4159
<211> 367
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089d03b1

<400> 4159

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ttgcttagac ctgggcgctt tgacagacag gtgagtgtcg atgttcctga tgtacgtgga 120

aggacagaga ttctcaaggt gcacggtagc aacaagaagt ttgatgctga tgtttccctt 180

gaggtcattg caatgagaac acctgggttc agtggagcag acctggcgaa tcttctgaat 240

gaggcagcca tattagcagg ccgacgtggg aagaccggaa tttcctcgaa ggagattgat 300

gattcaattg acagaatagt ggctggtatg gaaggaactg tcatgacaga tgggaagagc 360

aaagcct 367

<210> 4160
<211> 625
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089d04b1

<400> 4160

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gtacgccgac gtgatctact ctatcgtgtt gcaggatgat tttttgccaa gaacaccaac 180

accattggaa tatattttcg gctctatatt ctgcttgccc tgcttgttat tcctattttg 240

cttgagagat acatttaaac aagacaagaa aaagtttaaa gatccaagaa gattgtatgc 300

tcctggtcgg atgtatcata tcgtcgagag gaaattttgc agctgtgcaa gatacccacc 360

tgaggtgaga actgctattc cagtggaagg acggtttgag catattgtgt tatcgtgcag 420

taccactgct gatcatggca ttatttggat tgagcgagaa tcagccttgg ctttagagct 480

aatgaaggaa aaagagaagg caacaactcc acctgctgaa caaaagatgg agagattgca 540

aagtttcaag gaagacacaa gaatgcgctc acagggcgaa aacctggatg ttcctatgcg 600

aagacatctc tgaagagaac ccatg 625

<210> 4161
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089d05b1

<400> 4161

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aggacacggg actcggctgc accgatgggg gcgcacgagc actcttacta cggagccacg 120

tacccgcggg cggcggcagg acgatccaga tcgacagcca aagctccgag gccaagcgcc 180

gcgccggcga ccgagccaca tcgaccgacg aggacacgtg gcgcgacgtg gcgtcgctgg 240

cgtgcgacgg ctcgccggcg tgcgtgcggg agctcgcgga cacgaggagc gtggcgatcg 300

aggtgcggag gaggcagaag aagatcatgg ggcgcgccgg gacgacagag ctgcttggcc 360

gcgcccaagg agcatggagg gacgtgggtg acc 393

<210> 4162
<211> 347
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089d06b1

<400> 4162

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ggggcaagcg agagccattg tccccaccaa gggcgagggg ccggccatcg gcatcgacct 120

cgtcaccacc tactcgtgcg tatgcgtttg gcaccacgac cgcgtcgaga tcattgccaa 180

ctaccagggc atatcgtcca cgccctagta cgtaaccttg actctacttg gagcgaatat 240

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<210> 4163
<211> 399
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089d07b1

<400> 4163

ccttaggtaa ctgccgnngc aanacaagan gagaggncac attaatttaa caaggccttg 60

gctctcatag ccctccgggc aagactatat gaattggaaa ggcataggct ccatacagac 120

cggtcgaagc tccgatcaga gcagattgga agtggtgaca ggtccgagcg catcagaaca 180

tacaacttcc cacaagggcg tgtcactgac catcgtgtcg gggtcacgca ccactccata 240

gtggacgtca tggagggaga gagcctggac gtcttcatcg aagcgctgct gctgcaagaa 300

gagatggatg caattgcttc gtttgcttcg tgagccctaa tttttgtgga tttcttcctg 360

gagcgacaaa ccgcatcata aacacactga acactgaac 399

<210> 4164
<211> 300
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089d08b1

<400> 4164

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ggacagacca ccccgcggag gaggaggagg agaccacgcc gccgcccgga ggcaagcaca 120

tcacccagga ggagggcgcc aagcacagcc ccaaggacga cagcaggcac gacaccggcg 180

gcaaggagca caaggcgacc aagccaccag aggaccaccc tggaggcgac gacgacacgc 240

tgactacaac cgccaaggac gcgaccgacg acttcgagga cgtgggacac agcacaaccg 300

<210> 4165
<211> 424
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089d09b1

<400> 4165

gaccgaaccg gaacacccgg gtcgcccacg cgcgtggata ccaacccccg gaacggaggc 60

gcacgggggg gtatgagaaa acagacggag cgccaccgcc agggngccgc ccgcgcagca 120

accacccccg ggaccgagac caccggcggg cggcgggcaa ggaggcggca ccgatgggga 180

agaccccggc caagaggcac aagaccgcgc ccaccgggaa gaagaccacc aggactggcc 240

ccgccaaggc caaggacaaa acggccggga gcaacagagg agacgccgcc ggcgggaagg 300

agcccgggaa cacggagagc accccagaga cccccgagcc ggagncacga acaccgcgca 360

acaatgacgc cgagccggaa gaggggaagg gtgagaaaac cagcaccgaa ggcgaaacgg 420

cggc 424

<210> 4166
<211> 417
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089d10b1

<400> 4166

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atgagaccgt taataccaat ttggtggagg tggtactact gggcaaaccc cgtgtcctgg 120

accatatatg gcgtcatcgg gtcgcagttt ggcgataaca ccagcccagt gtcggtcacc 180

ggtgggagcc tcgcggtggt gaagcaattc ttggaggacg gtatgggcat taagcacgat 240

ttccttgggt atgtcgtgct cgcgcatttc gcgtacgtca tcggcttctt cttggtgttt 300

gcttactcca tcaaggtgtt gaacttccag aaacgttagg aatgcaggcg tcccaatcca 360

tagtttgtgt gtatatctgt atagcaggat acatacgtaa gcattgttgc ataaact 417

<210> 4167
<211> 269
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089d11b1

<400> 4167

cggtaagtac acaaccgccc acggccacag gaaagagggg gaggcaggaa gacacgcagg 60

cacgcacgca cccanggcag cggacagcaa gcagcanagc ccgcagcagc cgccgccggc 120

cggaagcgag ggcggcggcg acgacgaggg gcacggggcg gccagcaagc ggcaggagag 180

caacctgaga gaccagtcgg agccgcgggc gcggcggaag agcgcggcga ccgcggagga 240

gatgcggacg caggagcggc cggcggcgc 269

<210> 4168
<211> 322
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089d12b1

<400> 4168

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accatatcaa ctagtttcaa ttgtctctgg tgctcttaat gatgctgcag ctaacaagta 120

tgatttggaa gcatggttcc ctgcatcaaa aaccttccga gaattagtgt cctgttcaaa 180

ttgcacagat tatcaggcaa ggagacttgg aataggctat ggccagaaaa agaatgatga 240

gcaatcgaag cagttcgttc atatgttgaa ttccacgctg actgcaactg agaggacact 300

ttgctgtatt ctggagaact ac 322

<210> 4169
<211> 349
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089e01b1

<400> 4169

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cgacgccacc tgagacctaa ccacctcggc tgctagtgct agacgggcac ggcctcgccg 120

actccttctt ccatcagggt ttggtctcat ctgtgggagc tcacgctctt ggatccaagt 180

tcaggtttga tctgtgagga agttcgattt gcaactctgc agtgctattc cgaaccggaa 240

gcttgatcat ggaaggggcc actcccactc ccgctgcctc aaacacaagg attgctgtgg 300

tcaccggcgg gagcacaggg atcgggctgg atgcgtgcaa gcagctggc 349

<210> 4170
<211> 458
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089e03b1

<400> 4170

accttgagta ccatctgaca aacagcttgc tcagagccat cttttatcaa atggtacagt 60

tcctgtttcc aactcaaaac aggcatccca tacagggtta tctcctgatc cttttgatgg 120

gaatggacct cataaaaaga caaagaagcc taaagcatgg tccaacaagg aggatgcaga 180

cttaatggat ggtgtacata agtgtggtga aggaaattgg ctgaacattc tgcgtaaata 240

taacttcgat agcacaagaa cttatgttca attgtctcag agatgggcag tcatttgcag 300

gcgtcaagga acaaccaagc ttgctaaagt taaatcagtc accacggagt tcgatataaa 360

agctactcaa aggcattctc tatggctctt gatatgccta tggngacagc ctgtggattc 420

tctacattaa gattaggagc ttcacaacan agcgctca 458

<210> 4171
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089e05b1

<400> 4171

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cttttccctc taccttatga aatactccct ccattcctaa aatataagcc ctttcagaga 120

ttccaatacg gactacatat ggagcaaaat gagttacact ctaaaatatg tctatataca 180

tctgtatgta gtccatgttg aaatctctag aagggcttat atttagaaac ggagggacta 240

gttgctgtaa ctgaagcgca tatcaagtgg ctttgccaga tttgtgacaa ttagtaccag 300

acggtgattg ccagcccttt ttacccttgc aatatgttca tgattgccgc agcaagctca 360

ctccttgggg agcagagaca gagcagagat tcagttagaa gcataacaca tatgctact 419

<210> 4172
<211> 268
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089e06b1

<400> 4172

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tgttgcttaa gtttgatgtg tgatgtggaa actgttatgt taattattat ggctttgatt 120

gaaccggttg taaagtttgt aagtggattt tgcatttcat agtattatca tatcactgcc 180

atttatacaa gtgatagcgg tggactgtgg cgcactctcg cgctgtacac gtaggattta 240

ttgtccgtgc ggtcgttttt cttgcgtg 268

<210> 4173
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089e08b1

<400> 4173

tagttgcgca ggcaagggag gaggagagcg ggggcgaata tgagtgaaac tgacgctgca 60

taagcgcctg gcctcgagcg tcctcaagtg cggcaagggc aaggtctggc tcgaccccaa 120

tgaggtcaac gagatctcca tggccaactc ccggcagaac atccggaagc tgggaaagga 180

tggttgcatc atcaggaagc ctcagaagat ccactccagg tctcgtgcaa ggagggcaca 240

tgaggccaag cagaagggcc gtcactctgg atatggtaag cgtaggggta ccagggaggc 300

taggctcccc accaagatcc tgtggatgcg gaggatgcgc gtcctgaggc gccttctgcg 360

caagtaccgt gaggccaaga agatcgacat gcacatgtac catgacatgt acctgaaggt 420

caagggtaac at 432

<210> 4174
<211> 233
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089e09b1

<400> 4174

tttactatcg gcatccatgg cgtcaccccc ggggnggttt ttaattaaan naggcgttcc 60

tttaatttcc cccnaaaaag aaaaaaanta aaaacaccat caccaaaaaa aacacttaaa 120

agaaaagaac acccaaaaaa gaacaacaaa cccaaaacat ggaccaacaa agaagaagca 180

aacttaaagg aaggggtaca taaatggggg gaaagaaatt ggctgaacat tct 233

<210> 4175
<211> 211
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089e10b1

<400> 4175

ccccggtgga ggcagcggcc cttttcaaca aacttggaag gacaagaaac attagcgcgg 60

gcggttcccc cccaccgggg ancaggacgg accgccccga cgagggcagg ggccccgggg 120

gcgcgcggaa ccccgcgcgc gacagcatgg ccataacggc ccaggggggg gggcggccgg 180

caggcgcctg cacgccggcg gccaggcccg g 211

<210> 4176
<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089f01b1

<400> 4176

gcattcaata tttccgccac tcacaccgac ctccgggccg gcttacattt aatcctggcc 60

accgtcacca gctccatcga ctacggctca cccacctctg ctgcctccct ggaagccgcc 120

gccctcctca acctctccgt ggcactcgct gacccctcgg gcaacctttc cgcgcactgg 180

acgccggcca cgccgctctg ctcgtggccg cgcctctcct gcgacgccgc cggctcccgc 240

gtcatctccc tcgacctctc cgccctcaac ctcaccggcc ccatccacgc cgccgccctc 300

tcctccgtcc cgcacctacg gaccc 325

<210> 4177

<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089f02b1

<400> 4177

ccgcttcata acctacaggc tggagaacca gaaggagggc attttgttcc aaactggggt 60

gcgctaggcc acctatgagg agttcaccaa gaccctccct gagaatgact gccgattcgc 120

ggtgttcgac ttcgacttca ccaccccgga ggatgtgcca aagagcagga tcttctatat 180

cttctggtcc ccggacaccg caaaggtgag gagcaagatg acgtacgcga gcaccaacga 240

gaagttcaag aggaccctgg acggcatcca gatcgagatg caggccactg accccagcga 300

aatcagcctg gacgtgatca aggagcgcgc gcactaaggc aaatcatccc aatgcctcgc 360

aatatggatt tatgtcaaat atagatttgg cggtgtgact cttgaaactc tcttgatgat 420

tt 422

<210> 4178
<211> 404
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089f03b1

<400> 4178

ctgctaactc cagagaccga gcgaggaaag ttgcgggggg atacctgaga gtcagggaga 60

tatggctggg attggtccta tcaggcagga ctgggagccg atagtggtgc ggaagaaggc 120

gcagaacgcc gccgacaaga aggacgaaaa ggccgtcaac gctgcccgcc gctccggcgc 180

cgagatcgac accaccaaga agtacaacgc tggaacgaac aaggctgcat ctagcggaac 240

ttccctcaac accaagcggc tcgacgacga caccgagaac ctttcccatg agcgtgtttc 300

aagtgacctg aagaaaaacc ttatgcaagc aaggctggat aagaagatga cccangcaca 360

acttgctcag atgatcaatg agaagccaca ggtgatccan gagt 404

<210> 4179
<211> 393
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089f04b1

<400> 4179

gcgttgcata ctactcctgg cgannacttc gncggccggg cgtcaatcca cgagcagaac 60

acgtcagcgc cggcggctaa accgggcttc ttggccaaat tctgtccatg cctcgccggc 120

ggtggagcca ccagctagac cgacaagccc agccaccgtg cgccgtgcgc gtgaccacgg 180

gaggatttga agtggaatcg ggtccatgag tctcaattct gtattggaac tgtgcgagtt 240

ctcttcatct ttggaagctc tgctctgttt ttcttgcttt ctctagcatt tgattcctgc 300

gtattcattc gtgtaatgcc gacagacgta aactcgacca aattgccacc cgtccatgtg 360

aaatgaaaat gatgttgatt tggtcaattg tat 393

<210> 4180
<211> 545
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089f05b1

<400> 4180

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tctctctctc tctctctctc tctgatatga tattacagcc tactagtata cagaaatgct 120

ggagctccag cttgacaacg atcagttgtc gcagaaagcg cggagggttt cgtccagggc 180

tttcctgtcg tactcgccgg tgaaaacgca gcctcccaga ggtcctttca gaaggatgag 240

cctcaacaat ccgtccgcga ccttcttgtc gaccgccatg atgtttctga acttctctac 300

cgtcatgccc tttggtggtg tcacgggaag cttggcttga tctagtatgt caaatgtccg 360

tttcttgatg gactcgtcta tccagcccag gcggtaagac atgtcagctg ccataaccgt 420

tccagcagca acagcctccc cgtggagcca ttctccatag ccaagccctg tttctatagc 480

atgaccaaat gtatgacccc aggttagtgt gctcgaagac cactttcctt ctcatcctga 540

gcaac 545

<210> 4181
<211> 507
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089f06b1

<400> 4181

gctttgattt tcgctgaagc ttctgctcag gcatgtagct tctaagacag tggctcctaa 60

cgtggataag ctggttgccc ttgttcaccg tcctaatgaa tcgttcttcc ttgctcccca 120

ggcagacaaa gttacggttg tatacccaat gaggttccag gattcgattg atatcgtctt 180

ggcaacttcg tttctgcagg aatttgtaga agcaaggcgg actgctgcac ttaacaatgc 240

cccttcctgt atgtggtctc cagtaccacc tcttgagtta aaaggcgtga atgctgatgc 300

acttgatgca aatgctggtt ttgttacttt tgttgttttc cctcggcatg ttgagggtag 360

aaagctagac aaaacagttt ggagtttgtt aacctttcat gcttatgtaa gctaccatgt 420

aaagtgctct gaaggattca tgcacaccan gatgaggcgt acagttgagt ctctgatcca 480

ggccttggac cgttgctaat ccgatgc 507

<210> 4182
<211> 427
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089f07b1

<400> 4182

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cattcttcta tgaacgtgct gggaaggtgc aatgtcttgg cagtccagac cggacaggca 120

gtgtcacaat tgttggcgcc gtctctcctc ctggaggaga tttttcagat cctgttacct 180

ctgcaaccct cagtattgtg caggtcttct ggggactgga taagaagctg gctcaaagaa 240

agcatttccc atctgttaat tggctcattt cttactcaaa atactccacg gctttggaag 300

gatactatga aaagttcgac cctggcttta ttgacatgag aacaaaagct cgtgaagtgt 360

tgcagagaga ggatgatcta aacgaaattg ccagcttgtt ggaaaagatg cactgggaga 420

atctgac 427

<210> 4183

<211> 482
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089f08b1

<400> 4183

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gtccctctcc ccctctctcc tccctagggt tcgggtctct cctcccccgt cgccatgatg 120

cagccaccgc cgccgtcgca gccgcagccg ggcatgggcg cccccatgcc cccgcagggc 180

gcgggagggc agccgccgca ctggggcgcg atcccgccgc cgatgccgca ctacgcgcag 240

ccgcccccgc agcagcagcc gccgccgcag gcgatgtggg gccagccgcc gccccaggcc 300

gcgccctacg gccaggtgcc cgccccgcag cagtactacg ccgnngccga ggcccccgcc 360

gcccccgccg cctnggacga ggtcaggacg ctctggatcg gggacctcca gtactggatg 420

gacgagaact acatctacag ctgcttcgct aacaccgggg agttccagtc tgtcaagctt 480

at 482

<210> 4184
<211> 366
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089f09b1

<400> 4184

ccctgcgttc ggcncgccca anaaaaaaaa aaaggggggt tttaaacaaa gagggccaaa 60

tttatagcga cccaagaata gaaataggga tacaaaccac atacaaataa tattacaagc 120

aaaaaagtag aagaacgtta ataagcagga atagccagta ccagcctaaa tacttttatt 180

aactgtacac ttctgtttct ggttttattt tttccaatac cttctcagca tcaataaagc 240

cccctaaggg gcccaacggg gtatatttta cttgcctcca actgggtata aatggcagtg 300

ccaggcagtg aagatggagg tgatcaatac tataaaatgg tggctgatga aaaccaaatc 360

tatgtt 366

<210> 4185

<211> 366
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089f10b1

<400> 4185

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attgagaaca actcgncggg agggctcgag atctgtgttc ggagagggga attcttgagg 120

tcggaatcgg aacaagcggg cgcgctcggg atcggggtta ccatacaatt tttcccagga 180

acctttagtg aatgtgctaa tggagtcaaa gggtggcaaa aagtctagca gtagtagttc 240

cctgatgtac gaagctcccc tcggctacag cattgaagac gttcgacctg ctggaggcgc 300

caagaagttc tctgctgcat actcgaactg cgcgaagaag ccatcctgat atcgtatttg 360

catccc 366

<210> 4186
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089f11b1

<400> 4186

gtacacaccc acgacggaga accgaggacg attaagttcc ttggatcgtt catttcatgg 60

actctcatca ttgatgttgt tgaagaggat acaccagttg aggaaaaagt cattgagatt 120

atatgcaaga agctgccaaa actgcgggta ctagccgttg ctttcagcaa gaaacatcat 180

ggaatcagga aacccaataa gttctcggtc ccaacatcta ttgctcagtt aaagcaccta 240

cgctatcttg ctttcaagac ataccactca tgctttgtaa ctttaccaag aacactaact 300

aaacttcacc atatccagct gctagatttt tacgagggcc taatgttgga attccccttt 360

gctgaccgtg tcaacttgcg gcacatgttc t 391

<210> 4187
<211> 519
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316089f12b1

<400> 4187

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tgcaccgacg gcggccaccg tgagctcttc actgttgctt gggatcgcag ggctcccgga 120

taccaagttc aagagtgcca tagataccgc attggtagat ggtgaatgta acacaatgga 180

gaagcccggg gaccggatgt cctgttacct taccaaggcc ctggggaatg ttggagctga 240

gctggctcat caagttcctg gaagagtgtc cacggaaata gatgctcgat tggcttacaa 300

tacccaagga atcgtccaga gggtgcatga actgttgcag atatacaatg aacatgatat 360

cccatcagaa cgtctgttat tcaaaattcc tgctacatgg caaggtatag aagcgtcaag 420

attactngaa tctgaaggaa ctcaaacaca tctaacattc gtttacagtt ttgcacaagc 480

agcagctgca gcgcaagctg gtgcatccgt cgtacaaat 519

<210> 4188
<211> 356
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089g01b1

<400> 4188

cccatgcgtt cggcagcggc gaccgcgccc atcacggcca ccacccgcct gacggagccc 60

ttccctccca tcggcggcgg agatggtggg gtggctcaag gcgctggtgt acggcgcagg 120

gggcatggcg gtggtgggcc tggcggcgct ggtggcgctg caggagcgcc tcgtctacgt 180

gcccgtgctc cctggcctcc ctcgcgctta ccccatcaag ccctcgcgcc tncgnctcat 240

ctacgaggac gtntggctcc gggccgccga cggcgtgcgc ctccactcct ggttcctccg 300

ccactctccc acctgccgag gtccgaccat tctgttcttt caggaaaatg ccggca 356

<210> 4189
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089g02b1

<400> 4189

aggctgaggc agcagaagca ccatggattc cctgtgtcac tcctacgtca ttgtccttgt 60

gctcctattc attggaggat ccgatgccaa cccagccgcc cgtcgccaca gtcagctgga 120

tgtaaaccac aagaagcagc cactacagac attcaggcct tacaacattg cccacagggg 180

ttccaatggc gaaatacccg aggagacagc tgcggcatat ttgagggcta tcgacgaagg 240

tgcagacttc attgagactg atatacttgc atcagaggac ggtcatctga tatgtcttca 300

tgatgtaaca ctggataaca caaccgacat cgccagccgt actgagttcg ctggcaggaa 360

gagacctatg aagtcaggga gtaatatgac tggttggt 398

<210> 4190
<211> 321
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089g03b1

<400> 4190

gccgtcgatg acttcgctct gtagcagctc tcgcgcggat cataccatat ggcgacggct 60

atccaccagc tctccttcgc cgcgccgagc gcgggcgcca ggcggcggct gacccgggcg 120

tccgcgtccg cgacggaccg gcacgaggtg ctgtcgccca agcgccggct gccgctgcgg 180

aaagtgccgg gcgagcacgg cccgccgctg ccgggcgcgc tcaaggaccg gctggagtac 240

ttctacgggc ccggcgggcg cgacggcttc ttcgcggcgc gcgtccgcgc gcaccgctcc 300

acggtgggtg cgcctcaaac a 321

<210> 4191
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089g05b1

<400> 4191

cggacttcgt gggtacagta tttgttcgag tgcttccgac attgtgctta cggagccatg 60

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ctacacgatc tatgcagttt ccatcaccat ccgtattgtg cttggcttta tgcttattgc 180

cctgatctgg aaatttgatt tcgctccctt catggtcctt atcattgcca tcctcaatga 240

tggtactatc atgacaatat ccaaggacag agttaagcca tctcccttgc ccgacagctg 300

gaagctcaat gaaatcttcg ccactggtgt tgtgctcgga acctaccttg ccctgatgac 360

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gtcaatcaga gacagtgagt ttgagatgat gtc 453

<210> 4192
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089g06b1

<400> 4192

ggatttggtc cgctgaaact gctgcgagta gcttggttgt tgtcaagtgg aattaaccct 60

gtttgcgtgc gctcttacag tttgattgag aaactcatat tttcctgtag attgggaagg 120

atgtcgagta cctcctggtg gcaaagcttt ctgcagcagt ttagtattgt tcccaaattg 180

ttcagatccg aaggtgttgc catttatgtt gcgcggcttg cttgcattgg tttctcctca 240

acctgaactg aacacatttt ctttcttcag tgtgtaatgg agaaaggaaa tggttgataa 300

aaccaagagg cacagacaga gatgtgctgc atcagagtac ttctctagat tggtgcgctg 360

gaaatgttca acgatctatg atcgactgca ttgatcaaaa agaagagaaa aaaaaacagg 420

gactcagcag ctgcttggaa tctgctc 447

<210> 4193
<211> 482
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089g07b1

<400> 4193

gattgatatc tccaatnaaa ctccacgaga cggggccaaa ttgtgacacc ggagcagtcc 60

agtcccaaat ccccctttc ggccggccac gacctcttcc tccacaaaat cctccccgga 120

attccgccga gtccccggta gccggccgcc gatcggtcga ttcgcggggg gcgggatgag 180

cttccaggac ctggaggccg ggaacggcgt ccgtgggacg ccgcggagga acggccgggc 240

ggcgggggcc ggcgccggct cgtcgcaggc cgtcgcgtcg ggcgtctttc agatcaacac 300

ggcggtggca accttccagc gcctcgtcaa cacgctcggc acccccaagg acacgcccga 360

cctccgcgat aggatacaca agacacgagc acacataaca caactggtga aggatacatc 420

ngagaagctt aagcaagcta gtgaggcgga tcatcgtctt gaagcacccc taccaaaaag 480

at 482

<210> 4194
<211> 297
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089g09b1

<400> 4194

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ttcactcccc gcgcatncta accttcgccc ttcttcttcc ccatttcggc agggggggcag 120

cccaccaacc acccccaccc ggcgccatga gggagtgcat ctcgatccac atcggccagg 180

ccggcatcca agtcgggaac gcgtgctggg agctctactg cctcgagcat ggcattcaac 240

ctgaaggcca gatgcccggt gacaagaccg caggggggagg tgaagatgct ttcaaca 297

<210> 4195
<211> 464
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089g10b1

<400> 4195

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tttaggataa gataaatttc gctgtattcc cttcactgca aggagggccg cataataacc 120

atattgctgc tttagcgata acgctgaagc aagttgcgac gcctgaatat aaagcataca 180

ttcaacaagt taagaaaaat gctcaagctt tggcatcggc cttgctcaga agaaaatgca 240

gattggttac tggtggcact gataatcact tggtgctttg ggacctcaga acttttggct 300

tgaccgggaa gaactttgag aaggtctgtg agctgtgcca catctctata aataagacac 360

cgatatatgg ngataatggc tcaatatctc ccggtggcgt gcgtattgga acaccttgca 420

tgactactag agngtgccta gaagatgact tcgaggtgat cgca 464

<210> 4196
<211> 442
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089g11b1

<400> 4196

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aaccgcctgc tcgcccgcaa gcagttcgtg ctcgaggtca tccaccccgg ccgcgccaac 180

gtctccaagg cggagctgaa ggagaggctg gccaaggtgt acgaggtgaa ggaccccaac 240

tgcatcttcg tgttcaagtt ccgcacccac ttcggaggcg gcaagtcctc cggattcggt 300

ctcatctacg acaacctcga atctgccaag aagttcgagc ccaagtaccg cctcatcagg 360

aacggccttg ctaccaaggt agagaagtca cgcangcaga tcaaggaaag gaagaacagg 420

acaaagaaga tccgtggtgt ga 442

<210> 4197
<211> 484
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089g12b1

<400> 4197

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ggaaagtctc tacaagatgg ccagatgata acaacttcta tgaggccact ataacccgtt 120

acaatcctgc tacaggcgaa catgctcttg tctatgacat gggcaaaaca actgagtcat 180

gggagtctgt caggctttgt gatatgagac ctgaagatat aagatgggaa cgtgatgatc 240

aaggcatctc aaatcgagat agttggggcc cttctggtcc attgttgaac aggaaccaaa 300

acaacaatgg tagagggaga ctatctcaga atgagcatcc aaataaatat ggtccacctc 360

aaaatggcat caacaggaat attggtgaaa ttgacgtgcc taacactcag agtgtcntga 420

ttgaggtgga gagggtatng tcaaatccaa tatgcatgaa attgaaaggg caaagaactg 480

ctac 484

<210> 4198
<211> 148
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089h01b1

<400> 4198

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ctcgggctcc atctccaagg attctgttcc cgagtcgtac gtgatcctgc tgaagcgtga 120

gctcgagcca cagccacaca ggcaggat 148

<210> 4199
<211> 202
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089h03b1

<400> 4199

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cgtcaacgac cccttcatca ccaccgacta catgacctac atgttcaagg atgacactgt 180

ccatggacag tggaagcacc at 202

<210> 4200
<211> 359
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089h05b1

<400> 4200

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cttttacttc aagagcggag cgtgccggca tggggaccgg ggctaccggc tgcacaacag 120

gccaaccaca tcggcaacta tagtgcttgc taacatgaac cagcggcctg atatgaggac 180

ccctggagtc gatgcccaag gtgtggctat tgcaccagag aagaagcagg agcactacga 240

ggactactat gaggatatct atgcagagct gaacaagaat ggtgaggttg agaccatgaa 300

tgtgtgcgac aaccatgccg accacatgac agggaatgac tctgtgcagt gcacggagg 359

<210> 4201
<211> 518
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089h06b1

<400> 4201

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tctacgaggc gcccggcgcg cacggccgct acatctgcgc cgagggcacc acgctccacc 180

gcggcgagct ctgccgcgtc ctctgcaagc tcttccccga gtaccccgta cccaccaagt 240

gcaaggacga ggtgaaccca ccggtgaaag ggtacaaatt cacgaaccag aggctcaagg 300

acctggggat ggagttcgtg ccggtgctgc agagcatata cgagacggtg aagagcctcc 360

aggagaaagg gatgctgccg gtgctaccgc caggcgacga cgtccgagac aacctgcatg 420

agcagctcat gatgaagccc gcccagttgc tacgtaatta attatactct acatttggta 480

gggatatatg ctgtcggcta gttaattcta tgggacat 518

<210> 4202
<211> 51
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089h07b1

<400> 4202

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<210> 4203
<211> 219
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316089h08b1

<400> 4203

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gtgttggcag ggattccgcc tcttatacgc ctgcccgcct cgccagattc ctcacagctt 120

ccctgccccg agcggagatc ctgaactccg gaggccgacg tcgggggtta gattcggcgg 180

ccatgtcggg cgccgcgctg gtcgccatag cggcgtcca 219

<210> 4204
<211> 261
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089h09b1

<400> 4204

tcacaagann aaggaccacc aggagagcat taagatggag anggcgatca aatacaacga 60

ccctacctac atgatccgag ctattccgag taatgcagca gacaatgtct actgcacact 120

gctggctcac agtgccatcc atggcgcaat ggcgggatac agcttcactg ctgggatggt 180

caatggcaga catgcctaca tacctttta tagggtgacg tccacacgga acaagggtaa 240

agatcactga ccggatgtgg g 261

<210> 4205
<211> 520
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089h11b1

<400> 4205

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tcgtcgcctt ctccgcggag cttggagttt tcggcgagat gttcgggcgc gggccgccga 120

agaagagcga cagcacgcgc tactacgaga tcctgggcgt gcccaaggac gcgtcccagg 180

acgacctcaa gaaggcctac cgcaaggccg ccatcaagaa ccaccccgac aagggaggcg 240

acccagagaa gttcaaggag ctagctcagg cttatgaggt tctgagtgat cctgagaagc 300

gagagatcta tgaccagtat ggtgaggatg ccctcaagga gggaatggga ggtggaggaa 360

tgcatgatcc ttttgacatc ttccagtcat tctttggtgg tggcggcaac cccttcggag 420

gtggcgggag cagtangggc aggcggcagc gcangggtga ggatgtggct catcctctga 480

gggtaagcct gaggaactgt acacggacat caaagagctc 520

<210> 4206
<211> 512
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316089h12b1

<400> 4206

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ggaggctgta gccccggatg tcgtcggccg ggagggcgag ggccgcgagc ctggcggcgg 120

tggcggtgcg gatggtggtg ggggcggcag cgcggcccgc gccgagcgcg gcgctgatga 180

tggcggcggt gcgggggggag gacacggagt tcgggacggc gtcctggtgg gcgtacgcgg 240

ccctgtccgc cttcctagtg ctgctggccg ggatcatgtc ggggctcacc ctgggcctca 300

tgtcgctcgg ccccgtggat ctggagatcc tcatgcgcag cggcaccgac gccgagaagg 360

cccaggccgc tgcgatcctt ccggttgtaa agaagcagca ccagcttctt gtcactctgc 420

tgctgtgtaa tgcttgtgcc atggaggctc tccctatatt ccttgacagg attttcaatc 480

ctgttcttgc tattatattg tcagtgactt tt 512

<210> 4207
<211> 507
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090a06b1

<400> 4207

cccgcctatc atggtgggtt ttccttaaga tgcacttgcg ttgcgcaccg cacaaggtgg 60

gactgcttct cggccccttc tagatcagcc atctgctgat ccatacacag cggctttcac 120

gaaactcagc gtgctcgctg agcaaagagg ggatgcttat gcaaacgccg atgtaagggt 180

tcctcttgaa gagcttgcag ctaaaaaggg ccatgatgac gtctctcagc taaccccaac 240

tgatattgct gtcgaggccc tgcaaaagat taagaatttt gccactgagc attccatggc 300

cagtggccca ttcgacgact tataaattgc cgccaggaga ccaacaatgc aatccttgta 360

ggatttcggc ccaattttgt ttgtaccgtg tatcttcatt tttgtttcgc tcaacattat 420

tgattcattc tttatactga aaaaggagct gtgctgaagc atgctctgaa acataaaaaa 480

atagcggatt gagctaatgt taagagc 507

<210> 4208
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090a07b1

<400> 4208

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tatgcaaacc tgtggcatca actgctagga aaggggagt ttgtagagac agaaaatata 120

acagtgatcg agcaacaacc cgcggagcca gagaatattt atgttggggt tgtgaattac 180

tacgttcgag aaagctgtca aaattgagaa aacacatttg gaaatagatg taatagacca 240

tctaccgttt tcatgaggtt aagctctttt ttttttggaa caaaggactc tcattggtaa 300

acctatagga attttgctat gaggcacttt ggattggagg aatggaccta tgaaatggcg 360

gatctaatta ttatat 376

<210> 4209
<211> 129
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090a09b1

<400> 4209

aaaaaagaaa aaaacccaca catagacctc cccttggggg ggcccgttct taagggccaa 60

agctagcatc cccggggtgg gccctaatac caccttcaat agggtcccca aaaccgactg 120

tcaccggcc 129

<210> 4210

<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090a12b1

<400> 4210

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cagtgtgcgc ggtatctcag tcccctgttt gagttctgca ggaagaaggt tcttcctgat 120

gacatccgca aagcattgct ctttattgtg gactgctgca tgaagcgtga ttatttgcaa 180

gcaatggacc aatacatcaa gctggccatt ggcaacgcgc catggcctat tggagtcact 240

atggttggta tccacgagcg ttctgcacga gagaagattt acacgaatag tgtggctcat 300

atcatgaacg acgagaccac tcgcaagtac cttcagtcga tcaagaggct tatgacccct 360

tgccagcggc gttatcctgc cctgccctcc aaatcagtgg agttcaacag cctggcaaat 420

gggagtgac 429

<210> 4211
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090b01b1

<400> 4211

cttgcaactg tggatccggt tgcagctgcg gctcagactg caagtgcggg aagatgtacc 60

ctgatctgac ggagcatggc agcgccgtcg gccaggtcgc cgtcgtggtc gtcctcggcg 120

tggcgcctga gaacaaggcg gagcagttcg aggtggccgt cgggcagtcc ggctagggct 180

gcaactgcgg cgacaactgc aagtgcaacc cctgcaactg taaagct 227

<210> 4212
<211> 332
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090b04b1

<400> 4212

caagaacggt ataatgggtg ctgccggatc ggtaggcttg tggccagggc tgcgctccag 60

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tacatgttca agtatgacac tggccatgga cagtggaagc accatgaagt taaggtgaaa 180

gacttcaaga cccttctctt cggccagaaa gaggtagctg cgccagggtg caggaaccct 240

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actggcaagg accaggctgc agctcacatt aa 332

<210> 4213
<211> 100
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090b05b1

<400> 4213

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acttcttgat agaagatttg agacgttgga tattttgttc 100

<210> 4214
<211> 271
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090b06b1

<400> 4214

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tcgacaaggt gctcagctcc aagaccgtcc tccagaaggc ccgcgccgct ggcggccccg 120

gcccagccgc caagcccacc aggatcgccg agtgcctgat cggcgacgag accggctgcg 180

tcctcttcac cgcccgcaac gaccaggttg atgttctgaa gcctggcaac actgtgatta 240

ttccgcaatg caaagattgc tatgttcaaa g 271

<210> 4215
<211> 257
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090b08b1

<400> 4215

caccgtcctt cccgaggggc tcatcgaatt ccctctgcct tattctagcc gaaccgggac 60

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aactacaagc tgggagacct ctatgacatg aggatctcca aggaggtagc tgtggatctt 180

ctgggtgagg tattcaaggt gactatctac aagatcatgg gcggatgtga ctagcaggag 240

ttctcgcaga atcatgg 257

<210> 4216
<211> 266
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090b09b1

<400> 4216

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ggaatcttca gtggagcata tagcttggca tatcaaaaat tatagagtac taattagcac 120

atattcttcc ctctttatct tttctctctt ctctcttatg ttttctttct ctctcatctc 180

tcttttctct cttctatctt acccccctttg taaaaaaaac attaggtcaa atttggacct 240

aaaaacttca gaatgatgat tatctg 266

<210> 4217
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090c03b1

<400> 4217

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agctactgca cttcatgtag ttaggatcaa ttctctgttt cagtttgaaa tattccccat 120

ttcctcctat ttgattgatt catctgatgg acattttgtc aggcaaataa acaaaaggca 180

tatgtattgt tacgagtgaa gccatccata ctcccatgtg gaattcaaga aatagagaaa 240

tgttattgtt ctacgagaac atactgtgga cgtccaac 278

<210> 4218

<211> 296
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090c12b1

<400> 4218

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gggatgagaa gaggaagctc gcaaggaaat cagtgttgag actgaaaatg gatcttcaac 120

tagtatcctg gagagatgca atgatatctc ccaactccct tccaagatga ggccttttt 180

ttgacaaaaa tggtggtgta agaatagatg tgaggtttgt gttgtttatt cttgatatcg 240

gcggattgag atattgtatt acgggtccct tttaatgtct cgtgcttttg tctttc 296

<210> 4219
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090d11b1

<400> 4219

aaaaaaaaaa agaaagaaaa aatacaaccc ccaaaaaaaa aagaactggc cagtaaacca 60

agatcataaa aaaaaaaaag gggggggcgt ttccaggata ccaaatttta ctccgcgggg 120

tgaacaatat tattcctttt ttaaggggcc cctaaaataa tacctagggg ggcattttac 180

acaccatcgc gggggaaaa acc 203

<210> 4220
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090e04b1

<400> 4220

acgctgtcca gggcagggtt aatctgggct gatcttgctt tcctcccaca gatgaaaact 60

ttgttctgct catgttcatt tttcttggct gccattgtga cggctttgta gctcaggtag 120

gaaggggga gtgacacggc cgttgaacgg gagcaaagga gtgtagctgg ttcgtcagat 180

tcggatcggt ccgtgtaggc gcttgtgtat tttgtatatg gcgtttttcg tatgtgcagg 240

tgagtctggg ggatatatat acatcagggg attggattat tcatggatgt ttggtgcgat 300

gatgaacaat aatgtgacga ttctttgtag ggtaattgga agaactgtga tgttcttgtg 360

c 361

<210> 4221
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090e05b1

<400> 4221

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cggcgtagcc tatgatgatg ccaaattttc gtgtaaactg tggtaactgc cgtcgtcgaa 120

ttacccaccg ttgaccttgg ttgtggtgga tgttgtatgt ttgggatgtt tggcccaact 180

ccaacctcac cctggtgggt gaggagtaga tgctaactat ggcaaagcaa gcgtatatgg 240

aagggaacgg gtgttccaga tccacccagt taaacttgtt gttgtgcaag gagcagtctt 300

catcttgggc gttgcttact cttttaattt 330

<210> 4222
<211> 101
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090e06b1

<400> 4222

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ggtgaaatca atggactgtg cgtcgtccaa cgtcgacatg t 101

<210> 4223
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090e09b1

<400> 4223

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gcgccgccgt cgtctgcgcg cacggggcct tccgcgtgcc agaggacctg ttcctcgacg 180

aggtgcccga ccagggtctc gtaggaaacg gcgccaccct caacctcctc tccttcatca 240

acggcgctgc tggaggagga ggacgcgtct gagccagcct catgtcctca gctctctgat 300

ctgctacgcg gaagagacaa gtaaagtctg tggctggttg attcgctttt tcagaaacga 360

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tagaagagga tgcattggag ttatact 447

<210> 4224
<211> 299
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090e11b1

<400> 4224

gggcgtgccg gggggaggaa tatcttggag atttattttg gtacctccca gaccatccac 60

gttgaggatg cgcagggcca ccagtttgcc acccgtctgg gcaacgtgtt caccatcggc 120

aagggcacca agccgtgggt gagcctcccc aagggcaagg gtatcaagct caccatcatt 180

gaggagcaga ggaagcggga tgccgctgcc caggctgctg ccaaggcctg attctgaggc 240

gttgagtcgt tttgctatag ccagttatct tcaaggatat agacctatat cgctagcac 299

<210> 4225
<211> 499
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090e12b1

<400> 4225

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cgggccaaaa gctggtccga ctccgcccac cgcttcttgc agcgctgcgc ggacgccggg 180

aacctcgacg catgctacct tcttggcatg atccggttct actgcctggg gagccggggg 240

tcgggagcgg cgctgatggc ggcagcggcg gtgggtggcc accgggaggc gctctactcg 300

ctggccgtca tccagttcaa cggcagcggt ggcagcaagg acgaccgcga cctccgcgcg 360

ggcgctgcgc tgtgcgcgcg cgcggcgtcg ctcggccacg tcgacgcact ccgcgagctc 420

ggccactgcc tttaggacgg ctaccgcgtg cgccgctcct tgctcgacgg gcgccgcctc 480

ctcattcagg cgaacgcgc 499

<210> 4226
<211> 210
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090f02b1

<400> 4226

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ccacacccgc aagcagcgcg agcaggcgcc gcaaccggag gcgaacgctg cgccggagcc 120

tgccgagaac aagagctccg ccagcggcaa gaacttcagc tcctaccaag cgctgggtgg 180

ccacaagacg agccaccggg tgaagcagcc 210

<210> 4227
<211> 201
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090f03b1

<400> 4227

gccaaggcgg ggcgggtcat catggagctc tacgccgaca aggtgcccaa gacggcggcc 60

aacttccggc agctctgcac gggcgaggcc ggcctgggca agagcggcaa gcctctgcac 120

tacaaggggt cggccttcca ccgcatcatc ccgggcttca tgtgccaggg cggcgacttc 180

acccgcggca acggcaccgg c 201

<210> 4228
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090f04b1

<400> 4228

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acaccaccac caccaccgag tccttcggcg gaggcgagca ggggcagggg tactacaaga 180

aggaggtgac gcagcacaag aacagggagc gcgtcggcga ggccggcgcc ctcgccgccg 240

gtggcttcgc cctgtatgag gggtatgagg caaagaagga cccagcccac gcgcggaagc 300

accagattga ggccggcctg gcaggggcgg cggctgtcgg agcaagcggc tacgcctacc 360

acgagcaccg cgagcagaag cagcccggct acggcgggaa gcaggagtac aggatgcctg 420

ttcacaacag ctacagcaac taagtaatca tgcatgc 457

<210> 4229
<211> 452
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090f05b1

<400> 4229

gcccgaagca gccggagggg cttaattaag tgttgcttct cttggccacc agcctncgag 60

aagcctcggc cgcgaggccg ctccggccag ccgtcgacat gcctagcgag gtgctcaagg 120

accaggtgat cgtcaacaag tacgcgccgc ttctgctcgc catgctgccg aggggccccg 180

tgacgccgtc cggccccagc ggcggcacga acgaggccgg gaactggttg agcaagcgca 240

gggtttccct taggataata gatccatcga tctaaagaaa tctttaggca tgcagtggta 300

gacggtatgc tctgttttgc agtacaaaat acttgtacat acatgattgt tagactggga 360

gacttgggca tatagtgtag gatatacccc aaaattatac cttcattctt taatttgtcc 420

cttgaagtaa ttgattgaaa gagttttgtc tt 452

<210> 4230
<211> 493
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090f06b1

<400> 4230

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ccctccggga agtactcctc ccgcgacctc gccgcccaca cctccctcaa gcccagaaaa 120

gagggtcagc aaactcaaga ggaggtacag aagaggaatc tcagggacga acttgaggag 180

cgtgagcgca agcacttctc atccaaggat aagtcctatg ttgatgagag ggaccggcga 240

aaaagttcga gcctgctctt agaaggttca aaacgggatg aggataagat agttccacgt 300

gaaattgatg cagacgactc tgacgtggag ctcaaaagtg atgatgaaag cgatgacgac 360

gacgacgatg atgacactga ggcactcatg gcagagcttg aaaggattaa aaaagaaaga 420

gctgaggaca ggcttagaaa ggagcgtcag caagcagaag aagaggccaa gatgaaggaa 480

gctgagctga tgc 493

<210> 4231
<211> 144
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090f07b1

<400> 4231

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aacgccggga atgcgaacca aaaacttgaa agcaaatgtg acaatcatct atagttcaac 120

tgacaatcgt ttggcttcag actg 144

<210> 4232
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090f11b1

<400> 4232

gagagcagcc agtaggctgc tttcgttgag aatcatgtgt ggtttaggga ccgcgcgggg 60

ccgcctcgcg gaggagcgca tggcctggcg caagaaccac ccccatggat tcgtcgcgaa 120

gccggagacg gtggccgacg ggtcggtgaa tctcatgatc tggaactgca ccatccccgg 180

aaagcagggg actgattggg aaagtggata ctacccactt actctccact tcagtgagga 240

ctaccctagc aaacctccca agtgcaagtt cccgcagggt tttttccacc caaatgtcta 300

tccttcaggg acgggctgcc tctcgattct taatgaggat agtggttgga gacctgccat 360

cactgttaag cagattctag ttggaataca ggatttgctt gatcaaccta atccagctga 420

tcctgcccag actgatggtt atcacctctt tatccaggat ccagcagagt gcaagagacg 480

<210> 4233
<211> 180
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090g02b1

<400> 4233

ctttcgttag aaacagnang cagacagagn gccgggcagg gttgcttaga gnacaatatc 60

atataccaca cgaacaagtg gtgtatttgt tatcgaaacc ttgtcttcta tatggtccaa 120

aaatatttag caaagaagaa accactacag acagaaaaag cataagacag aagccccacc 180

<210> 4234
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090g05b1

<400> 4234

tattttcctc ctttggggtg ctcaatgaac ttttcttctc ttttgctgca cttagatact 60

tgtgtagaga tatacatcga gatggacaac cctccgagta cgcaggacat gtcctactat 120

gatcatgttc agaagcgcca tgaggagaaa ggctgcttat atgcatgcct gtttacactg 180

tgctgttgct tctgctgcta cgagacctgc gagtgctgca tggagtcctt gtgctgctgc 240

ggctaaattt agctgcacat ttctgctgtt gcatggagat ctggcaggct gggctgtact 300

gtggaaaacc catatcgttt tgccttggtg agctggcgaa taggcatatg tggctgcttg 360

aataaaaact gtagttacgt ctctattgtc atgtatgatg ctggtcgcca aaaataagat 420

agtatgccgc cggtgtgtgt 440

<210> 4235
<211> 446
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090g08b1

<400> 4235

cgtcccacgc gtctttcttt taaagnngca aaccncngaa acgacgaaag attttattaa 60

cctttcatgt taacgttttc gctcatacag ttttctaatc tattgacgct tgtttagttt 120

ctcatgaatt atagttcacg taaacaatac aaacttccta ttgtgctgtt gaattgcttg 180

ttcactttaa ttatcaacaa gtcatctgat tgataccaca ataaactgca tcaagatgag 240

acttttctta actgtctata acgcatggtg tgatgaccat taggaaaact ttggcacagg 300

tggaggccga aggactagtg cttccggatg gaacacttgt ggtagatgga cgacctgttg 360

ctgctgtgta tttcagagct gggtatgcac cgactgatta cccttcagaa gtggaatgga 420

gtgcacggct tttgattgaa caatca 446

<210> 4236
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090g12b1

<400> 4236

cacagacaat tcgagccagg cttacatcac ccacgtcttc gttttgagga gtcgaagatt 60

tgttagcccg ctttgttcac agggaaccgt agtttgtacg cccatcggtc gattagccat 120

ggcccccctgc gattctttct caagaaaacc taccacccgt tggccagatc aggagaactc 180

ctgcatgcgc ctgctccgtc agcagccgcc gccgccgccg ccgccgctcc ggcggccgga 240

cctatctcgg tcaggagcta gttatcgaag atttttgaag aatgttaggc tcgtcgccta 300

tggtttgagc ttggtgtggg cctttacgct ataatctgca tggtcaaacc agcatagatg 360

ttcttgcaat ggtcgatgtg gccattcaaa atcctctaat atgaaaagag gaggtcaagt 420

agtttgaggc ggcaatggcc tatttttgta agttttctat 460

<210> 4237
<211> 256
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090h01b1

<400> 4237

aaaaaaaaaa aaaanggaag gaattagaaa aaaaaaggcg gtggaaaccc caacaaaaag 60

aaggaaacaa caaccagagc caccccaaga gggcgcccca gccgagagga ccacccccaa 120

ccacccccggc aagacggaga ccaacgcggc ggaaagggca aaccaaaacg gaccccaagg 180

ccccccaggc caaacccgcg agacagggaa aaccccgacg tggaccacca caaaccgcga 240

gcagaaccga cccccc 256

<210> 4238
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090h03b1

<400> 4238

gtttggttgc gccgccgcga gacgagcacg ggcggtttaa ttaaatcgga cggttagtta 60

gaggcatcaa gggcctgcca ccgctcccgg ggccgatgtg cgtgtaattc ctattaatgt 120

atcttatgtt gccaaacaac aacatgctcc tgtcaatgct atatcattgt gggcgtggca 180

tttttcttcc tcaggtgata ttccaatata caataagttc catcaagaat tgcatgt 237

<210> 4239
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090h05b1

<400> 4239

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acccccttcat gcacgcgcgc ggggtggcct tcatggtgga caactgctcg acgacggcgc 120

ggctggggtc gaggaagtgg gcgccccgct tcgactacat cctgacccag caggcgttcg 180

tgacggtgga caaggacgag cccatcaacc aggacctcat cagcaacttc atgtcggacc 240

ccgtccacgg cgccatcgag gtgtgcgccg agctgaggcc caccgtcgac atctcggtga 300

cggccgacgc cgacttcgtg cgccctgagc tccggcagtc ctcctaggct cctcgccccc 360

ttgcacctaa gttaagtaag ctgcgccggg ccggtcgggg cctggcacga gagttggttt 420

ttgatggatg gacattcatg gactgtaatg tatgtgtgcg actggctgtt tgaactcgtg 480

agctgctgct gggtagag 498

<210> 4240
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090h06b1

<400> 4240

gaaggagcga tgagcacgcc ggcgtggccg ccgcgctggg gcgctgctgg catggcggcg 60

gcgtcagcgc cgtcaactac ggtctgagcg tggacaggga cagggtagca aaactgaagt 120

cctactgcac ggtgggagca cggaggccag acccagcggc gcgcgctgca acacggagcg 180

<210> 4241
<211> 274
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316090h08b1

<400> 4241

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acctgcccct ggaggcaaga tagacgtatg gtcatcaaaa ctgatcggct taagaactga 120

ccaggagaca gggcttccgg ctatagctcc aaacgaacgg ctcgtgctgc caggcctaga 180

tgaccaatgc ggaacctaga cgccatacaa agtccgatga ggtacaacgc gtggagaagg 240

ccaaccacga ggaggcccaa ctcaaggagg tcag 274

<210> 4242
<211> 305
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090h09b1

<400> 4242

cgcaaacacc acgggggggg tttattttaa agacagtgtt ttttctcaca cccaagaggt 60

aaggatggtg agagtcagtg tgctgaacga tgctctcaag agcatgtaca acgctgagaa 120

gcgtgggaag aggcatgtca tgatcaggcc ttcttccaag gtcattatca agttccttat 180

cgtcatgcag aagcatggat acattggcga gtttgagtat gttgatgatc acaggtctgg 240

caagatcgtg gttgaattga atggcaggct gaacaagtgt ggtgtcatca gtcctcgctt 300

tgatg 305

<210> 4243
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090h10b1

<400> 4243

gacgcggcga cgggggggg ttgtttaaag gacacctacg tttaggaccg cgccaccgag 60

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ccacgctaca acaaggggct tgccttcaca gagaaggagc gcgagacaca ctaccttcgt 180

ggccttctgc caccaaccgt catatcccag gagctgcagg agaggaagat catgcataat 240

attcgccagt accagctacc tctgcagcgt tacatggcta tgatggacct tcaagagggg 300

aatgagaggc ttttctacaa gctcctcatt gacaatgttg aggagctgct tcctattgtg 360

tacactccaa ctgttggtga ggcctgccaa aagtacggat ctatatttag tcgtccgcag 420

ggtctttaca tcagcttgaa agagagggaa aga 453

<210> 4244
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316090h11b1

<400> 4244

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ggtgcatggc atccccacct ctgagataag tgtcgtctcg tacaaccagt gtcccggcgc 120

agagccgatg cctacgcttg tgctatcgct caatggcgat gactgcgcgc tcgtgacgca 180

ggcgctcggc tcgctcaacg ccgtcaatca gaccgctggc ggtgtggttg tgggcgccac 240

gaacaactca gtgacgcgcg ccaagccctc taagaagagt ggcatgccga cttggctaat 300

cgtggggatc gtcctcgccg tcctgctggg catcgccgcg atcgttgtgt tggtggctgt 360

gattgtgaag gccacatctg gcggatcgaa gccctccggc ctggcgcaca ggacgcactg 420

ggcgacggag gagctttac 439

<210> 4245
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091a04b1

<400> 4245

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cgtggtgcat ggagggccac tacatgacct gcaagatcgc cgacggtttc ctgacgagcg 120

aggcgttgac ggtggtgaag gccctcctgc cgtaaagatc caacggcgag ctcgcggagg 180

tgtgctcgtg ggcagacaga cagcgcttcc ggtaccggtg gtacagacga ctacactggg 240

ccgacacccc gggagactgc aagttcagct acgccaggga ctgccacgac accaagggga 300

acaagaacgt gtgcgtggtc ggggctatca acaactacac ggacgcgctg caggactcgt 360

ccagcccatt tgacccgacg gagagcctga tgttcct 397

<210> 4246
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091a05b1

<400> 4246

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gatctgaacg ctgcgctccg tgtcgccgct cgaatccgcc atgaaggggg ccaaatccaa 180

gggcgccgcc aaggccgatg ccaagctggc ggtgaagagc aaggggggcgg agaagcccgc 240

caagggcagg aaagggaagg ccggcaagga ccccaacaag cctaagaggg ctcccagcgc 300

tt 302

<210> 4247
<211> 148
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091a06b1

<400> 4247

atctcttata ccaaagctca tattcttctg cttgaaatgt ttttgggacc acagatttgg 60

aggatgtctt gcaactgcag atcaggctgc agctgcggct cagactgcac gcgcgggagg 120

atgtaccctg atctgacaga acagggca 148

<210> 4248
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091a12b1

<400> 4248

tccacgcgtc cggtacaatt gtactgtact gtatatgtaa gagagtgatg atgttggctt 60

attctttgtc gcgagactat caggtataat tggctatgta tgaagaccac ccatgggcat 120

atcttctagg aacaaagacg gacgagttct tc 152

<210> 4249
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091b08b1

<400> 4249

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ccgccgttgc gacgggagga gcacgaaaaa cggcagcccc gactgccgtt gcaagcttcg 180

gccatgacgc ggtggcgcgg cgcggtgcag cagcttggat gcgtcgttag ctccccgccg 240

acgtcgacgg cctgcaaact tctggtccag gtgtaagagg ttggtcctcg agctgcgtgg 300

taagggtagt gctcgccaac gcggtcagtg cggcactacg gcgaccagca cgggtgcatg 360

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ggtcgggcgg cgcaactttt ttttggt 447

<210> 4250
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091b09b1

<400> 4250

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gcgcccgtcg atcaggggaa gaaggaggag gaggagttca gcacggggcc gctgtccatt 180

ctcatgctca gcgtcaagaa caacacccag gtgcttatca actgcaggaa caacaagaag 240

ttgcttggtc gcgtgagggc atttgatcgt cattgcaaca tggttcttga gaatgtcagg 300

gagatgtgga ctgaggttcc aaagactggt aaaggcaaga agaaggctct cccggtgaac 360

aaggacaggt tcataagcaa gatgttcctc cgcggggatt cggtcatcat tggcctcagg 420

aacccgaaat gagtttgacg actcggcgta aaccagaaga gtctcttttc gctatgct 478

<210> 4251
<211> 96
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091b10b1

<400> 4251

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actttagaat aatttggtaa taaagggcgg ttatat 96

<210> 4252
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091b11b1

<400> 4252

tcctcgcgtc cgcccacgcg tccgcccacg cgtccgctag ttctagatcg c 51

<210> 4253
<211> 97
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091b12b1

<400> 4253

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cgtaagggaa atctgaaaaa gcaactttat tgttttg 97

<210> 4254
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091c03b1

<400> 4254

tccgccgccg acgacgacga gcacacccgc aggcgcagat ctgagattga gtgagtgtgt 60

gagagagaaa tcggtggaga tggccgggag gctgactgcg atgggatccc gcatcatggg 120

cggccacggc gcagccgcgc gcgccgtggc ctccgccctc cgcaaccgcg ccggcatggg 180

cctccccgcc ggcaggcaca tcgtccccga caagcccctg cctgtgaacg acgagctggt 240

gtgggacaat ggcacaccct tccctgagcc ctgcgtcgac cgcctggcgc cgcacatcgg 300

caagtacgag gctctggcgt ggctgtgtgg aggtctgagc tttttcgccg ctcttggcct 360

ggccgccgtt gtgaatgaca aggccttcaa gatgccatat tcaccaaaag tctacccgtt 420

cgacaatttg agagcgggac cttggtgata gatcataaaa atattttccc ccacctttt 480

<210> 4255
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091c05b1

<400> 4255

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tgtccttaca aaggagtcga caacaattgt tggtgatggc agcacccagg aagaagtgac 180

taagagggtt gcacagatca aaaatctcat tgaggcagca gaacaagact acgagaagga 240

aaaactcaac gagaggattg caaagctcgc cggtggtgtt gctgttattc aggtgggagc 300

acaaacagaa actgaactta aggagaagaa gttgagagtt gaggatgctc taaacgcaac 360

caaggctgct gttgaggaag ggatttgtgt tggtggaagg gtgcactctt ttgaggcttg 420

ctgctaaagt tgatgccatc aaggacaccc 450

<210> 4256
<211> 459
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316091c06b1

<400> 4256

gctaatcagt aaacagagag ctctccgtga atgatgtcga ggaagaggaa gaagaagaag 60

tgtggagcac gctgctgcta cctggtcgcg ctctcagcag tgtgaatttc cagaagcatg 120

cttgccgtgc cttcttccgg gtgcaccgga ggccggcatg tgagcagggg tgcttcagtg 180

atgcagaaga aaaaaggcaa gtcttattgg caagggaagg ctacgccttt cttccaggtc 240

tccctctctc catctaaatc cgtgtttgga ggagggggct acggttagtt tacccaccgg 300

tttaccgtgt ccttgtgagt tgtggtcatt atcatgcact cgtcagttgc ttgtcatgta 360

tgggggcctt gaattttcag ctacataatg gtcggntgtg tcagtgaatg ggaagtgtgt 420

tcatgtgagt caattagctt aaagaagtgt gatgtgtgg 459

<210> 4257
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091c08b1

<400> 4257

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtggggg ttttaactcg 60

catccattct caaggttagc aggagaccgg ccatggcgcc gtcgcagccc aagtcagggc 120

tcttcgtggg catcaacaag ggccacgtcg tcaccaagcg cgagctgccg ccacgcccgt 180

ccgaccggaa ggggaaaggt accaagaggg tgctgtttgt ccggaacttg attagggagg 240

ttgctggatt tgctccctat gagaagcgta tcactgagct tcttaaggtt ggaaaggaca 300

agcgtgcact caaggtcgcc aagaggaagc ttggtactca caagagagca aagaagaaga 360

gggaggagat gtcaagtgtc ctcaagaaga tgaggtctgg tggtgttggt gctgccgaca 420

agaagaaata gattttgcat 440

<210> 4258
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091c09b1

<400> 4258

gtgtccccta actaccagct ctctcggaca ggggggccct ctagagacgg cgatcattgg 60

acaaacgccg ccacacaagg ccaggacctc gagagaacca gcgccaccga cgagtggcaa 120

ccagccgact gaaaaggggc gggccaggag ggagaggcct agggctcgcc ccaatggcct 180

gacgcagcaa aggaagcagg aaaaaaagga agctgttgat ctggaagaca cagataactc 240

tggaaccatt gatgcaaaag agcccacggt tgccatgaga gcccagggat ctgagatgac 300

tgaagagcat attaggcaaa agaaggctga tggggaccaa catggcagtg gagcgaacga 360

ctaccaggag gttgagccca cgacgactgg ccaa 394

<210> 4259
<211> 69
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091c10b1

<400> 4259

tccacgcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

ctagatcgc 69

<210> 4260
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091c12b1

<400> 4260

cactcccaca tgtgctactc caacttcaac gacatcatcc agtccatcat caacatggac 60

gctgatgtga tcaccattga gaactcgcgg tctgacgaga agcttctctc cgtcttccgc 120

gagggtgtgg tgtacggtgc aggcattggc ccgggtgtgt acgacatcca ctcccccagg 180

atcccgtcca aggaggagat tgccgaccgt gtcaacaaga tgctcgcggt gctcgacacc 240

aacatcctgt gggtgaaccc tgactgcggt ctcaagaccc gcaagtacgc cgaggtcaag 300

cctgcgctca ccaacatggt tgaggccgcc aagcagatcc gcgccgagct cgccaaggcg 360

cagtaagccg tgcttgtata gcagctcccc aatttt 396

<210> 4261
<211> 101
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091d02b1

<400> 4261

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 101

<210> 4262
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091d03b1

<400> 4262

gccccgtgca tctcggcggc ggacgagccg gactcggcgc cgtcgagcag ctgctgctcg 60

gcggtgcaca ccatcggcaa gagccccagc tgcctgtgcg ccgtcatgct gtccggcacc 120

gccaagatgg ccgggatcaa gcccgaggtc gccatcacca tccccaagcg ctgcaacatg 180

gccgaccgcc ccgtcggcta caagtgcgga gattacacgc tgccttgatg gcccggcaat 240

gctgccgatg aagatgaatg ctgtggaagg cgtcgtcgtg tgggaataag cgagtggtgc 300

atgtgccact tatgtggggc actagtgact tcatggaggt gccatcatgt gatgggtgct 360

tgggggaata tgtttctata agcatgtaat gtttcgtctg ggttaacgtc aacaaacgtc 420

tccgtgtgga ttctattttc 440

<210> 4263
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091e02b1

<400> 4263

ggttttggct tctcctcccc ttccggctcg ggttctggtt cggttcgggt ccgagagtag 60

ctagcctaga ctagggtttc cgaagatcgg agaggagaga aagggagaga tccatggcgg 120

agacggagta ccggtgcttc gtgggcggac tcgtctgggc caccgacgac cacaacctcc 180

agcaggcctt cagccagtac ggagagatcc ttgacgccaa gatcaatgaa cgaccgtgag 240

accggcaggt cccgcggctt cggttttcgc acgttcggca gcgaggagtc ggatgcgcca 300

ggc 303

<210> 4264
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091e07b1

<400> 4264

tcggttacgc gtgcggccac gcgtccggcc acgcgtacgt ttagatcgcg a 51

<210> 4265
<211> 478
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316091e12b1

<400> 4265

gttattcttt acagtgaatc caaaaagcgt agcagaccct aagttcccca gaaaaccgta 60

catatggccg tcctttctca gtccggtcgg tgcccagagc taatatatga cggggaacta 120

catccggggc gattgcaaca gattctgtgc tgtatgtagg ccggataaca aggacagaga 180

agtccaataa tacctgtagt tttcccttgg atcgcagagg cactttgttt tgctaatgga 240

aatgatcaat agaatacaat tttttgtgtt tttgtgagct gtggctcaca ctgccagcat 300

tggttgatgc gcttagtttt cggaaattgg tttccgttat tcatcagtta ttgtaagttc 360

atgacttcag ttcttttctt ttgaagattg catgtaccaa actttgccaa agaacctnct 420

aatatattat gacactggat ttggtgacac tgttcttttt tgaaattagg cacaggtt 478

<210> 4266
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091f03b1

<400> 4266

cccacttttc cggccgacgc cgccgaccct cgcgacgccg ccacttctcc tcggggcgca 60

accatggtga cctccaccaa gaagacgaag aagtcggggg acaacatcaa caacaagctg 120

cagcttgtca tgaagagcgg caagtacacg ctcggctaca agaccgtcct caggaccctc 180

aggaactcca aggcaaagct tgtgatcctt gctaacaact gccctccgct ccgcaagtct 240

gagattgagt actatgctat gttggcgaag atcactgtcc accactacca tggaaacaat 300

gttgatttgg gaactgcgtg tggtaaatac ttccgagtct gctgcctgag tatcatcgac 360

cctggcgatt ccgacatcat caacgcaaca ccagctg 397

<210> 4267
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091f09b1

<400> 4267

ggatacttga acgagatatt cacatggtgg catcggattc caaagcacat gaatttcctg 60

aagcatttct gggagggtga tgaagaggag gtgaaggcga agaagaccca gctgttcggt 120

gccaacccac cgatcctcta cgtcctccac tacctgggcc gcaagccatg gctatgcttc 180

cgggactatg actgcaactg gaacgttccg atactgcggg agtttgccag tgacatcgcg 240

cacacccggt ggtggaaggt gcatgacaag atgcccaaga agctccagag ctactgcctc 300

ctgaggtcga ggctgaaggc agggctggag tgggagcgga ggcaggcgga gaaagccaac 360

ttcaccgacg ggcactggaa gcggaacatc accgacaaga ggctcaagat ttgcttcgag 420

aagttctgct tctgggagag catgctgggg cactggggcg agggccccaa caacgcgacg 480

<210> 4268
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091g03b1

<400> 4268

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ctccacgcat cgtctttgaa ggagaggaag atgacgagcg tatggaagac caaggttctc 120

cccgggctca acaagatctt cgacaaggat ggcaagaagg ccgccgccgc cgagttcttg 180

aaatccttca acaaggagga gattgacaag gagattgagg acaagaagac agaactagag 240

cccaaggttg tggagaccat tgaagcatct cctccagaaa ttaagggctt gatgaaggat 300

aagaaaacat ccaagatcaa gaagaactca gttgccgtca ccaagttcct tgacgatttg 360

gccaagattg atttccccgg agccaagctg gtgag 395

<210> 4269
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091g05b1

<400> 4269

gtcccgtcaa acgcaaagaa gacaagcgca gcaagtaggg ttaggagagc cggcggcggc 60

ggcggcggcg gaaagcgaga gctccagcgg gccgtcggga gggaaccacc ctcgtcgtcg 120

gagatgacgg gcaaggcgaa gccgaagaag cacacggcca aggagatcgc ggctaagatc 180

gacgcggcga cgaccaaccg cggcgggggc aaggccgggc agaaggaccg gctcgggcag 240

gagaagggcg gccacgccaa gatggagtgc ccgctctgca aggtgacggc ccccgacgtc 300

aagtcgatgc agatccacca cgaggcgcgc caccccaagc tccccttcga ccccgagaag 360

atcaacaacc tgcacg 376

<210> 4270
<211> 322
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091g07b1

<400> 4270

ttcttttgtc cgctgctttc accgaagcct acagaggagc caggagaggg gcggcccgaa 60

aggatgtcgt agaagatgtg cgccaacaag cgcgccccgg acccggtcat ggcccacgag 120

ttcacactcg agttcaccat gcacctccat aggtgcatct ttgggtgcac cttaccgaat 180

gccgtcccgg atatcatgaa ggttgtccag aaggtcgtgc agaccgacat tgtaaccatt 240

gatgtgcagc ttgacgtgca catctacaag cacatcttga gcagtgtcct caggagagtc 300

ccgagtagga ttcgtctcaa ga 322

<210> 4271
<211> 293
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091g11b1

<400> 4271

gttcggcgcc agtacaatgc ttcagttcta cactgatgag gctgctgggc gcaagatgtc 60

cccaaatgct gttctgatca tgagcatagg gtttattgcc gtcgttgccg tactccatgt 120

tttcggcaag ctgtaccgca cccctaatta ggttccatat atacaacctg agtttatgtg 180

tctatgaata gcgaagtcgt agactttgca taggaaatga ctgtcgggtc ctgaaaagat 240

ttaccttata atactgagat gatattgtcg aatcttttgc aaggtgtttg tct 293

<210> 4272
<211> 463
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091h01b1

<400> 4272

gagtctgaca tggtcaagct ggaggaagct gtccgaagca tcaagatgga gggccttctg 60

tggggtgctt ccaagctcat gccagttgga tatggcatca agaagctcca gattatgatg 120

accatcattg atgacctcgt ctctgtcgac actcttattg aagaccatct ctgcgttgaa 180

ccagccaacg agtacatcca gagctgtgac attgttgcct tcaacaaaat ctaaatcttc 240

ctgaggcaag tgatggcggt gggtggacaa tgcagcagca caatatatct acagttttcc 300

gttgccgtga tggtgtcgta gctaaagcaa gcataacata tctgccctgt gaggtttttg 360

gaccttaagt cgagttgagt cggagtggta ttactgaggg gtatttgctt cgtatgaaat 420

gagacaatgt ggttggattt ctcgtgctat tctttttctc tgg 463

<210> 4273
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091h05b1

<400> 4273

gtcataatgt acatcttttt ttcttttacc ttctttgctg atagctagta taccatagag 60

cttcatccct ttttttttccc tttcttcttt ttatattagt tgatgaaatg tgtcaaccat 120

tgtgcagttt gttcgttata tgtggatatg ataatggaaa ttgcaagatt taaaccctaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa 300

aaaggggggg gccccttta agggtccaag tttttctccg gcggttggga aaaaaaattt 360

tttttttttg ggcccc 376

<210> 4274
<211> 190
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091h07b1

<400> 4274

ccctcgcgtc cggaagaaag ggccatccat gcaccctctc cctctatatt ttggcaattt 60

catagaggca tggcatttta cattggcaaa gactgaactc ctatatgtag cttaagcttg 120

tatcactagg cttgtaatct gtattatcga ctgtaagata cagttaatta aatcatattt 180

cagtatttcc 190

<210> 4275
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091h09b1

<400> 4275

caatcatccc caattgacac aaggagggca ctttataaga atattgtctt gtctgggggt 60

tcaactatgt ttaaggattt ccacagaaga ttacagcggg acctgaaaaa gattgtggat 120

gtacgggtcc gtgcatctaa tgctcgactt ggtggagatg cgaaggctca acccgtggaa 180

gtaaacgtgg ttagccatcc aattcaaaga tatgcggttt ggtttggcgg atcggtgctt 240

gcttctacag cagaattcta tgaggcttgc cacacaaaag cagagtatga agagtacggt 300

gcaagcatct gccgatcaaa tgctggtttc aaagggatgg attgaaattt tcgtatgaag 360

actaggaggc atcacagata gcattttcat gcaatcagcc tgagcct 407

<210> 4276
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316091h12b1

<400> 4276

tgtgcttgcc ttctctctcg tgagccgagc tagctgtgag aatatcatga agaagtggat 60

accggagctt cagcattacg cgcccggcgt gccggttgtg ctggtaggca caaaactgga 120

tcttcgtgaa gacaagcact atttgctgga ccaccctggc atgatacccg ttaccacagc 180

acaggggggag gaacttcgta agcaagttgg tgctttatat tacatagagt gcagctcaaa 240

gacacaacag aatgtcaaag ctgtgtttga tgctgctatc aaggtagtaa tccagccccc 300

aact 304

<210> 4277
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092a01b1

<400> 4277

gaatctatta ggtgtcgtcg gacgatcggc cagccgcctt ccacatctgc tctggcatcg 60

catcttggac tagctatagc ttagcctgct gctactaatc gactttctgt cacatgttta 120

tcgttgagca attcgaaaac cataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaagaaa aacaaaacag aaaaaaaagg ctgaccgcta tcaaaggaac caacgctaac 240

atact 245

<210> 4278
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092a03b1

<400> 4278

ttggagagcg agctaggccg agacgatgag ctccccagcg gcggccgtga aggtgatcgg 60

cgcagtggac agcccgttca gccaccgcgc cgagatcgct ctgcgcctga aaggagtccc 120

ttacgagctc atcccagaag acctgagaaa caaaagcgag ctgcttctgg ccaacaaccc 180

cgtccacaag aaggttccgg tgctcctcca gggcgaccgc gccgtctgcg agtccctcct 240

tatcgtcgag tacgtcgacg aggccttccc tggcccaccc ctcctccccg ccgaccccta 300

cgagagggcc atggcccgct tttgggccag cttcatcgac ggcaagtgct cgaaggccta 360

ctggctggcg ctgtgggcgg agggcgaggc gcatgaaggg tttgtgaagg agacaaagga 420

gaacttcgcg ctgctggagg cgcagctgga agggatgcgg ttcttcggcg gcgacgccat 480

cggtc 485

<210> 4279
<211> 90
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092a07b1

<400> 4279

ttgtcatgtg cggtggtcgc gtgtgtttgt atcggtgtgt ttgtatggtc ggtgctttat 60

atataaagcg gggcgaaagc ctttttcggt 90

<210> 4280
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092a09b1

<400> 4280

tggctaaact tcaatatgaa taataaagtc caaggtttaa ttccaaaaaa aacatgcatc 60

aaaccagtac ttagtactta ctactggctt aatttacgat gtggtgtagt tactagtaag 120

tcgtgtacca ccagcaagtg tgtttgtgga tcgaggagga gtacgtagta ctacgtgcta 180

cctcccggcc ggtcgtgtag aataaacggt ggctaaactt caatatgaat aataaagtcc 240

aaggtttaat tccaaggaat aagatggcaa aaaaaaaaaa cccgaacaac tccaaagaga 300

gggccatggc ccgattttga aca 323

<210> 4281
<211> 61
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092b03b1

<400> 4281

ttccacgcgt ccgcccacgc gtccgcccac gcgtccgccc acgcgtccgg ttctagatcg 60

c 61

<210> 4282
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092b07b1

<400> 4282

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accgtgctcg ccgcctcccg cccgatccac cggtccacca ccgcgccggc ggcatggcgg 120

atcagctcac cgacgaccag atcgccgagt tcaaggaggc cttcagcctc ttcgacaagg 180

acggagatgg ttgcatcacc accaaggagc tgggaacagt catgcgttcg ctggggcaga 240

acccaacgga ggctgagctc caggacatga tcaatgaagt cgacgctgat ggcaatggca 300

ccattgactt cccagagttc ctcaacctga tggcccgcaa gatgaaggac accgactcag 360

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ctgctgagct ccgccacgtc atgacgaacc tcggcgagaa gctcaccg 468

<210> 4283
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092b09b1

<400> 4283

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ccgctcgctc ctcctctgcg ccgccgtcct cctcgccgcc ctctcctgca ccttcgccgc 120

cgacgcgccc ttcctcgtcg cgcacaagaa ggtggccctc tcccgcccca agcccggcgt 180

cgagcgcctc gccgtctccc tcgacctcta caaccaggga tccgcaactg catatgatgt 240

ggccattaat gatgactcgt ggccaaagga agcatttgaa cttgtctctg gagaggtctc 300

aaagactttg gaaaggcttg aacctggtgc cactgcttcg cacgcgtttg tattggagag 360

caaaacacag ggcaggttcc aagcttcacc tgctgttatc aagtaccgtg ttgccacaaa 420

ggctgcactt caagaggcct actcaactcc catcctcccc ctggacat 468

<210> 4284
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092b11b1

<400> 4284

gtgaaaggtt gacgccatca agaagatctc tgagtatgtg tcgcagctga gaagagtcgg 60

caaaggccac ggagtgtggc acttcgacca gatgctgctt gaggaggcag cttgaaggac 120

acggacacga cgactacggg caatggagga tgtaggtgtg atatgtcaag tagtggacag 180

ataagccaac cactggatgt ggttttgagg gatttttgca gtggggtttg tagggtgcta 240

tgccgcgctg ggtttgggat ttgaaataaa acgaaggaga tgtgccacgc tcttaaaaaa 300

aaaaaaaaaa aaaggagaac aaactaaagg aaccaaactt acaaaca 347

<210> 4285
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092b12b1

<400> 4285

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tgaggctgag ggagctgggg ttggagttca ctccgctgag gcaaagcttg tacgagacag 120

tgacgtgctt gcagaaaaag ggtcacctgc gtctccccat tgttcccata gcacagaagc 180

gcgcgtactt gtaacagggc aggacagggg acaagcccat ctcataaaac aacaagagca 240

aagctgcagc agcaaaagaa aatactgtca ggattttgga gcttcagcat aaaattaatt 300

gcgtatttct acaaagcaaa gtgtggcatg taaatagaac taaaaccacg acgagtattt 360

tggaagggag gggcattatt tattttgtaa tgaatgtact tctacacatt atttataaat 420

tcttct 426

<210> 4286
<211> 65
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316092c03b1

<400> 4286

ttccacgctt tcgnggacgc gtgggcggac gcgggggga tattttataa gcggactgtg 60

taaaa 65

<210> 4287

<211> 481
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092c07b1

<400> 4287

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ggcgagcggt ggggcgccgc gatcggcaac ctgggagagc tgggcgccaa cgtcgagtcg 120

ctgcagaagc tgctcgcccg gaaggccgtc ttcgtcgacg acgacgtctt ctccaaggcc 180

tccctcgcct ccgaacaggc ccgctccatc aagattcttg accagagggt gcagtctctg 240

gaacgtgaac tggacgctgc catttctgca gctgctcgag cccgtacaga aaaacgccag 300

gctgaagctg ctcaacgggc tgcagagctg cgtgcacagg aagtcacgaa ggagctggag 360

aacaccgcaa gagttttcca gctgcacatg gaagagctgc gggcaaaaca agaggagatc 420

gccaagagag atagtgatat aaggtgttgg aagcaataat acgaaccctg agtagcaaag 480

a 481

<210> 4288
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092c08b1

<400> 4288

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tcgcgtccat tccactgcct atatttgctg gcatgtactg tgttttcttc gcatatgtcg 120

gtgcctgtgg tctgagcttc ctccagttct gcaacttgaa cagcttcagg accaagttca 180

tcctgggctt ctccttcttc atcggcatat cagttcctca gtacttcaac gagtacgcct 240

ccgtctcggg ccatggcccg gtgcacacgg gcgcaagatg gttcaacgac atgatcaacg 300

tgcccttctc gaacaagccg ttcgtggcgg tgctggtggc ctacttcctg gacaacacga 360

tgcacctgca ccagagcgcg gtgaggaagg acaggggcta ccactggtgg gacaagttca 420

ggagcttcaa gaaggacgcc aggagcgagg agttctactc cctgcccctt 469

<210> 4289

<211> 481
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316092d01b1

<400> 4289

cccacgcgtc cgcttggccc aggatgggcc ccagggcgac gagacacacg tgacaacacg 60

tgtcatggga acgcatggtt atgcggctcc agaatacatc atgacgggcc acttgactac 120

caagagcgat gtatatagct ttggtgtagt gctcttggag ctcatctccg ggctacggtc 180

tgtggaccgt gcacgacggc cgagggagca gaacctgatg gcttgggcta gaccatatct 240

caagtgctct gacagattgt acaaagtcat ggacccatcg cttgagtgtc aatactcatg 300

caaaggcgcc gaagcggcat cactggtggc atacanagtg tctcagccag aacccaaagt 360

ctaggcccac catggggagg gtggtcaagg ccctcgagcc cgtcctcagc atggaagact 420

tctttcatat gggcccattt gtgttcacgg tcattgtcga ggaggacaag gtagtggaca 480

t 481

<210> 4290
<211> 82
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092d02b1

<400> 4290

cccacgcgtc cgcccacgcg tccggtagaa tattgttgtt tgttcaaagg ctataataaa 60

aagtgtttct ctttttacta gt 82

<210> 4291
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092d09b1

<400> 4291

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ccgctcgaac caggtctaag attcgcgctg agggaaggag ggaggaccgt cggcgccgga 120

gttgtcgcca aagtcatgag ctaataacaa taatatgttc cagacctttc tctttttttt 180

tggcgtagtg aattttagcg aacaaatgaa tgttgatatg aaggatttgt ccgaccggaa 240

acacgagata aacgagagtc gagagcaagg ggactggcat ggatgcatct tgtgtggatg 300

cattcagcca accaacttcc tacggataat ggtttgttac cattcccaag aattgctatt 360

ttttcttctc atgttgggta gtttgctgta tcataccgca gcttgttacc tagacacgct 420

tctctggcat atattagctc ggtgattcaa taagaccgtc tcgtttcctg atgc 474

<210> 4292
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092d11b1

<400> 4292

ggtgcagatc gatcaatata ttgatctgca cacgactatc ggaccaggat caccgcgggc 60

ttttgattgg ccccttttgg ggtttgggtg gtatggtatg agaggggaga gcacgtgtgc 120

aagagcgccg taattgtgta attatgcaag gcaatcgatg taaagtatta ctccaaagtg 180

tgaaggaaat ccgatcatgt gtattattca aaaattttag aaagttggga aataagcaaa 240

aaggcccgaa aagaaaagaa ctttc 265

<210> 4293
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092e07b1

<400> 4293

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ggcagtggta gaaaatggca tggatttgga tgaggcaaag gtggaaaaga agaggaagaa 120

gatgaaggca aagagggctg cattagttga aggtggggag gagggtgagg tcaatgctct 180

gacgcatgag aagaaggtga agactgacag gaacaagaag gagaaaaaag aatagaagaa 240

gaaaaataag gttgaggata gtgatggagg ggatagcagt gagcagagta tagatgccac 300

atcagaggac cagcagatgg gcgatgacac tgatgccatt acatttgatg aggctttgat 360

gtccaatctt caaaagcagt ttgagaaggc tggtgcagaa gccgggatgc tcgtgacacc 420

agttact 427

<210> 4294
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092e08b1

<400> 4294

cccacgcgtc cgaccgacca cgacggcgcc gtcgtgcacc acgagcgcaa gaggtccacc 60

gagctgatca ctcagcagta accccgagta atctacgccg tacgttcgta cacatgtcgt 120

gtgcttgtgt tgagtgtggc cggtccaacc gtcctggacg tgaatctcta gattctggac 180

acgttggtca gatttccagg ctttaggacg tagggaccga cacccatggc tctacgggga 240

gaaagatcac atgatattcc gcacgcgtga tgaatccatg tagaaagggt cggttcaccg 300

gccgcttgcg ctgcttgccg tggcgcgcac tgcgcagctt gtgacagatc ttttcaccga 360

ggtgacagtg atactgtacg agtgtgtatg gg 392

<210> 4295
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092f09b1

<400> 4295

tctgtgattg aggtctatcc ataaggttgt gctcccaaag taagatgctt atatatgttg 60

tggattgttg tgtgctcgct ctaaggatgc aaaaataaag gagtgccttg tcattttcca 120

aacaaaagtc ctgggtagat catagaatag caaggcggtt atgccttgtt acctttttgat 180

acccgtggaa ctttcttttg gaaaaaatag tatgcagata gagtgcttat catatatgta 240

ctgtgtacaa tatcatacac cataatatca agtcatgtat ttgttaccg 289

<210> 4296
<211> 476
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092f10b1

<400> 4296

tgcgcttcgc tctcagatcc cttctcctcc gtctcgcccg cgtgttgggg taggagccat 60

ggcggaccag ctcaccgacg accagatcgc cgagttcaag gaggccttca gcctcttcga 120

caaggacgga gacggctgca tcaccaccaa ggagcttgga actgtgatgc gctcgctggg 180

gcagaacccc actgaggcag agcttcagga tatgatcaat gaagtggatg ctgatggcaa 240

tggaacgatt gactttcctg agttcctcaa cctgatggcg cgtaagatga aggacactga 300

ttccgaggag gagcttaagg aggctttccg cgtgtttgac aaggaccaga atggtttcat 360

ctcggcagct gaactccgcc atgtcatgac caaccttggt gagaagctga cagacgagga 420

ggtggatgag atgatccgtg aggctgatgt cgatggtgac ggccagatca attacg 476

<210> 4297
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092f11b1

<400> 4297

tcccacgcgt ccgcccacgc gtccgcccac gcgtccggcc agagagcttg tcgagccgtg 60

ccatgtcagg gaacccagtg gccggcgcgc cgggtgccgt cgagccgtat gtgccgcagg 120

cgacctacaa cttcagcgcc cgcctcgcgc tcaccgtctc tttggtcctc ctgatgatca 180

ccgtcgtcgt cgtcgtcatc cctctcatgg tttacctgat gatcactcgc tcacgcagaa 240

gcggcggcca cggcctcgcc ggcggcatcc tccggtccgt tggcatgatc ggcagccggc 300

ggcacgggtt ggacgcgtcc gctctctcgg cgctgccggt cacccgcgta ccggaaggag 360

agcggcgcag ccgcgagggc tgagtgcgct gtgtgcctgg ccgagctcgc cgacggagac 420

caggctcggg agctgcccaa ctgcggccac ctgttccact tggagtgcgt cg 472

<210> 4298
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092g01b1

<400> 4298

ggaaagagtc gaaaattcca agacatgtac gatgtggaaa aatttaagat gaacttggat 60

ggtgttgtca aagtagtaga taaacttcct gctgaattga ccactaagaa gccagccgtt 120

attagagtac caaacagggt gacagaagac ttcatcctgg acaccatcca gcccgccttc 180

caaaagaaca gtttcctacg acttgcaatt attttctctt cagtaagttt gaaaccgaaa 240

gggacgaata acaaggactt ggattcaact gcttgccatg caatgttcac tgggctcaaa 300

ctgaacgctg aatattcaga agtggctgaa cagatgctgg gcaggcttaa agagctaagc 360

aagaaatcgg atggcaaggt gctggcggtc gatatgcgga ccgacttgct agagaagaag 420

a 421

<210> 4299
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092g02b1

<400> 4299

tttttgacac attgatgaat aaaacaataa aaaaaaaaaa aaaaaataaa aagaa 55

<210> 4300
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092g10b1

<400> 4300

tcgccggagt ccctcccgga cgccgcgccc caaccccacc gcttcaccgt cccggtcatc 60

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gagacggcgg gcttcttcca ggtggtgggc cacggcgtgc cggaggcggc cacggcggcg 180

atgctcgcgg cggtgcgcgg cttcttcgag cagcccgtgg aggccaaggc gccgttctac 240

acccgcgacc tcggccggcg cgtccggtac cagagcaacc tcaacctgtt caagtcgcgg 300

gcggccaact ggcgcgacac gctcttcatg gagctgccgg cgccggagga gatcccggcg 360

gcgtgcagga gcgccgcgcc ggagtacgcg cggctggtgc agcaggggct gggccgcacg 420

ctgctggggc tgctgtcgga ggcgc 445

<210> 4301
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092g11b1

<400> 4301

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atagcaggag ggctttcgat gagggaggtt cttcgtatga caacataagg ctattaattc 120

aagaaatgga aatcaagacg aatgcatgtc gttcagtggt tgatacagat ggtaataagc 180

tctcttttt ggtgtaaaca taaagtaaaa gagcctatag cgtatttatc attataaagg 240

atttctttta caaacaaccg gtagcttgta tcaggatcac tgtctattct gttgcgcaga 300

tttcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaca aacacgtgca agcaaaaaaa 360

aaaaacaaat atagagtccc c 381

<210> 4302
<211> 314
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092g12b1

<400> 4302

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaggggggg ggccttttta agggaccaaa gttaacgacc gcgtgattgc aacgaaaaag 180

ttttttttg gggcacctaa aataaaatta atgggccgcg ttttaaaaac gtgggaattg 240

gaaaaacctt gggtttccca aattaaatcc ttttgaaaaa aatccctttt tgccaagttg 300

gctaaaaaac aaaa 314

<210> 4303
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092h01b1

<400> 4303

gttacgacac ccctccccca aatggtgaga gcctagagat gtgtgcagac agagccgttt 60

cctatttcaa agatcaggtt gttccacatc tcacggctgg aaagcatgtg atggttgctg 120

cacatgcaaa ctcacttcga tcaatcataa tgcatctaga caaattgact tcccaggagg 180

taatcagcct cgagttgtca acaggcattc ctatgctcta catatttaag gaaggcgagt 240

ttattagacg ggggagcccg gtaggacctt ctgaagcaag tgtttatgct tatacaaggg 300

taagggtcta ttccattttc tatccctcga cagaacaatt tgtatccaca gtatatatta 360

aaacaaactg attgacacca ataaaggcat ataactgctc tagtggctgg atctgaataa 420

tctcat 426

<210> 4304
<211> 63
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092h02b1

<400> 4304

cgacgcgacg cgcccggcca cgcgttctag cacgcgtgcg gccacgcgtg cggatctaga 60

tcg 63

<210> 4305
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092h05b1

<400> 4305

cccacgcgtc cggccattct atccctgttg gtggtcttgc ttactatgta actgcaccat 60

caagtatggc tgatattctg gcgaatccat tccatgcatt gttctatgtg gtcttcatgc 120

tgtcagcatg tgctctcttc tcaaaaacat ggattgaagt ctctggttca tcagccaagg 180

atgttgcgaa gcagctgaag gaacaacaaa tggtgatgcc aggccatcgt gagtcaaacc 240

tgcagaagga actgaacaga tacatcccta ctgccgctgc atttggtgca gtgtgcatcg 300

gcgcattgac tgttctcgct gatttcatgg gcgcaattgg ttcaggaacc ggtattctgt 360

tggctgttac catcatatac cagtactttg agaccttcga gaaggagagg gcgacagagc 420

ttggtttctt cgggttttga ttgatacatg atagctttgg gagcatgtta tggctacagc 480

acagc 485

<210> 4306
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092h09b1

<400> 4306

aaggactcca acaggcagtc caagcagctg gaagaactca ctgggaagat gagggagtgc 60

aagcgcttaa tcaaggaatt tgatcgtgta ctcaaagatg aggagaaaag caatacttct 120

gaggtcaaca aacagctaaa tgacaagaag caattcatga tcaaggagtt gaattcttat 180

gtcaccatga ggaagacgta ccaaagtagc cttggtaata agaggatcga actattcgat 240

gctggtaatg accaggtagc tgaagataac gttcaaatgg catcagaaat gtcaaatcaa 300

caactgattg attctggaat gaaacaaatg gaccaaacag accaagctat tgagcgttcg 360

aaaatggttg ttgcacaaac tgttgatgtt ggagctcaaa ctgctacaac tctaacacag 420

caaactgacc aaatgaagag aattggcaat gagctagatt ccgttcactt ctcattgaag 480

aaagcta 487

<210> 4307
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316092h12b1

<400> 4307

cccacgcgtc cgagacgaac acgagcacca aggcgatggc gactgctctc aaccgcggcc 60

tccgctccgg gatccgcctc ctcgccaccg gcgccgaggc ctccaagcca gcttcacgtg 120

gattccatgc taccggcgtg aagaggatgt cagggcacgg ccatgatgag ccatactacc 180

tccacgccaa gcacatgtac aacttgcaca ggatgaagca tcagaagctg actgcatgga 240

cttcggtgct gggagccgta agcattggta tcggtgtccc ggtcttcgcg ggtcgtcttc 300

cagcaaaaga agacctcctc cggatgagct cacataccct cccagggcct acttattgga 360

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<210> 4308
<211> 421
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316093a01b1

<400> 4308

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cgcgggctgc tcggcccacc agaatgaggc aagcccaaca gcagggtcca caggccagag 120

tgggtgtagc cggggagcca ccccagcgac tacttagtcg tccacacacg caagagaagg 180

ggatccagtg gatcaatgaa cccggcgtcg gcggctccct gttctttctt atccccaatt 240

ccccttttctc caattcttgt atccccggct tgtaatcgat actagcatgc ccgcgcggca 300

gcacgccgcg tcccatcgat acattatgtg tatgtatgct attttttttcg tgtgatgaat 360

ttaggcctga gagttctatg agcataaatt tttagtacaa aaaggcaaat tgtgcccnnn 420

a 421

<210> 4309
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093a04b1

<400> 4309

cccacgcgtc cgcgagttca aggagtggct ccggcgggtc gacgtggacc gcgacgggcg 60

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caagagcaag cgcggcatcg agtacgccga cgccgacggc gacggctacg tcgacgacgg 180

cgaggtggac ggactcatcg agtacgcgca gaatagcctc gggctcagga tcgtcgccta 240

ctatagagga gtcaatgtag gtctatcaag cgaagctagc tccatgcatg ctacctgcta 300

gaataagctc tgatctatcg tttgccaccc tgtacctttg ctttcttgtc tacttattag 360

ctaatctgtg caccgacgtg tgcgtttgtg atctatcatg atgtatttgg agc 413

<210> 4310
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093a08b1

<400> 4310

cttttccctc gtaaagagct tttagctact tgagagaggt aaactttaag cagccagaga 60

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actctgtaaa gaaacacagt tgcatcaggg ccttgtacgc atgagtgctg ttgtttaaaa 180

aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aagggcgtgg agactagagg cctaaggttg aaactggccg 300

acagtataca aacaaactta aattataagg ggccggcgtt tcaaaagtta aacttttttt 360

cccc 364

<210> 4311
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093a09b1

<400> 4311

tttatcgata tgttgggttt ttgtagatag cttatcaata cattggaaaa tgactaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggggcg ccttttaaaa 180

aaaacaaagt taactaaccc gtaaatgaaa ataaaaaatt ttttaaaagg gaaaccaaaa 240

ttaaattaaa tggccgtgtt ttaaaaacgt ggtaattgga aaaaccttgg ggtaacaaaa 300

ataaatcgct ttgaaaaaaa tccccttttc gaaagttggg gaaaaaaaaa aaaggcccga 360

accaatcgcc tttccaaaaa attgccaacc ctaaatggaa aaaggaaccc cccttaaaac 420

ggaaaataaa acgcgggg 438

<210> 4312
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093b01b1

<400> 4312

catgtgcccg gacgcctaca gctacgccaa gggcgagcag accagcacct tcacctgccc 60

acctggaacc aactaccaga tcgtcctctg cccttagaat aggacgcgtt gaaggatcaa 120

aagtataata accgggatca ataaggaaca atgactactc tgagtagtct acttatatgt 180

atgtgccatg tcacgtatat gcatatgcat gactgtgctt gtatgttgac caataat 237

<210> 4313
<211> 62
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093b02b1

<400> 4313

cctacgcgtc cgcccacgcg tccgcccacg cgtccgcgca cgcgtccggt tctagatcgc 60

ga 62

<210> 4314
<211> 530
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316093b03b1

<400> 4314

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ttcccgccta ttctatcaaa catgtgtctt ggcaacgctt gatcgcatca aggtcacgca 120

ggtggaacca tacgggccca tcctgatctc gaggggggcc aacatgtgat catctccctg 180

ttaatcttaa atcacacgga agaaccggga gcctcttgca catctcatgt ttatatatct 240

atagtgtttt aagtctgcac aggaagaagt cttgtaggaa gctgcttagt tggatctgct 300

ggtgggaagc aagcgagtga tggtgctgtg ttattgcggt agtttggtca ggccacaggg 360

aaattctgta agatatgcca cgctgaaaga attgaccggc ggtgtaggtt agctgcttaa 420

actatgttca tcggngcgat atttatggta cctgagattt gctggttaag tatgtttaac 480

cggatattta ttatgttttt cctatcgcaa atgatgatgc cgcgtccgnc 530

<210> 4315
<211> 483
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093b06b1

<400> 4315

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atgatcatct ccaagaagaa ccgcaatgag atctgcaagt acctcttcca agaggggtg 120

ctgtatgcca agaaagacta caacctggcg aagcacccgc agattgacgt gccgaacctc 180

caggtgatca agctcatgca gagcttcaag tctaaggaat acgtcaggga gaccttctcg 240

tggcagcatt actattggta cctcaccaac gatggcatcg agttcctgcg caacttcctc 300

aacctgccat ctgagatcgt gcctgccacg ctcaagaagt ctgccaggcc tactggccgc 360

ccactcggtt ctggcccacc tggtgaccgc ccaaggggc cacctcgctt tgagggcgac 420

aggcctaggt atggtgacag ggatggctac cgtggccgtc ctcgtggtgc acctggagac 480

ttt 483

<210> 4316
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093b08b1

<400> 4316

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cgacaagctc ttctatgagg ccttggccgc ccatgaccat atggggatcg gcacggttgt 180

gcgggaatgc cgtgggctgt tcaatggtct ggagtcactc accgactgct gtggtggtga 240

cgggacgacg gccagggcca tcgtcaaggc ctacccgcat atcaagtgca atgtgttgga 300

ccttccacag gtgatcgaca aagtcccgag tgatggtgtt gttaactatg tcgctggcga 360

cctcttccat accgtcccac ctgctcaagc cgtcatgctc aagcttgttc tacacttttg 420

gagcgacgag gattgcatca aaatccttgc tcaatgcaag aaggccatac cttcccgaga 480

aa 482

<210> 4317
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093b11b1

<400> 4317

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tgacacggtg gcctccgcgc tgaccacgct cttcctccac ctgtccaaga accctcaagt 120

cgcggcagcc attcgcgcgg aagccggcgg cgacaagccg tccacgtacg agcatctcaa 180

gagcctgcag tacacgcacg cggtgctgta cgagaacatg cgcctgttcc cgcccgtgca 240

gtttgactcc aagttcagcg ctgccgccga tgtgctcccg gacggaacct acgtggaagg 300

agactcgcgc gtgatgtacc acccgtacgc catgggccgc atgccgagca tctggggcgc 360

cgattacgag gcgttccgcc ccgaccggtg gctcactgga gcc 403

<210> 4318
<211> 534
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316093c01b1

<400> 4318

tgttgtaaca tctcgcatgt cagacacaga ggaggagaat cctgaggaga acgatgaagg 60

attgacaggg cttgaggggg agcttaaagg gtggagggta ggggagacct ttgaagggtt 120

cacagggaca tcctcattgt cgacaacgaa tgatgatgat gcatctagca cgaatacaga 180

ggctgtgttc gtcatctcgc cgaatggcaa gttcaagcgg aacatcaagt catggatgcg 240

tggtgcactt ctgggaagtg gctcattcgg gatggtgtat gaggggatca gtgatgaagg 300

tgcgttcttt gctgttaagg aagtatcttt gcttgaccaa ggaagcaatg cacagcaatc 360

tattctttca cttgaacagg aaatcgctct ccttagtcag tttgaacatg aaaatatagt 420

ccagtattat ggaactgaca aggaagaatc aaaactctac atttttattg agctntgtac 480

acaaggttct ctttcatccc tctatcagaa gtatanactg cgagactcac aagt 534

<210> 4319
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093c05b1

<400> 4319

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cgaatctgat ccgacgcgca tcgaatcgag tgagatgagc cgcccggacg acggacatag 120

gtctttcttc cctgtgggaa acccccttccg ggtcatcctt ccaggggggac ctcacctgcc 180

taggaagctc caggcgctgc tcaagtcata cgaggatgcc ctggccttga gcttgaggaa 240

gctaaagcca gagaatgcct tggaggtcct caccttgtcc tggatgaggc ttgctgtcga 300

ttgcttgtca gagctgcatg ccaacatagg caccctgata accgagctcg agctgcctgt 360

ctcggattgg gatgagaagt gggtggacat ttacttaaac agcagcgtga agctgctgga 420

catctgcatc gcgctaagct cggagcttgc tcggctggat caagggca 468

<210> 4320
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093c09b1

<400> 4320

cctacgcgtc cgcaaaacca gaccaaatct tcggcgagcc catcggcaca ttctgagagc 60

ggagaggaag caggaggcgg cggatcaagg agaggagact agaagatggg tggcggcatg 120

gaggtgaaca agaaccgctg gatcgaggag tggaacgccg gccgggagaa cctcgagctc 180

aacttccgct ttacccgccg cagcctcgcc gtcatcggcc tcttcggcct cgccgtcccc 240

atcctcgtct acaagggcat cgttcgcgaa ttccatatgc aggacgagga cgccggccgg 300

ccgtacagga agttcctgtg agcgtcgcct ccggtggatg tcgagactcc gagccgtctg 360

cagggtttcg gtcagggaga aggaatctcc attcggtttg tttcccgtac tgttgtagtc 420

agaccggagt attttgttct cacatgttgt gcgatatgtg ttaaataaga tgtaatgaaa 480

tgctgttctt gc 492

<210> 4321
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093c12b1

<400> 4321

tcggtaactg ccatcgcaag cacacaaaga ggtggtgtgc acactaaagc tcattcagtg 60

gctgatgttt tccggacttc aatttatcag atagtctcag ccttcttgga tgacatgcgg 120

gcaaatgcaa aagcttcgag tttggagaag aattggatca gtgaaggaag aaaacctata 180

catggttcac gtgctgtgtt ggttcagaag ttgagcttgt ttattgaata ccgagctgtc 240

tgaactctgt gtgatgtctc tcaaatcgac agtctgttgg gatgaaggaa ttttgttatt 300

ggccaaaatg cttgtttcag tgaagtttgg agctgctgac actactatca tctcattgag 360

gtcaaggaat atttgtttcg gcactatgat ccactggcga aaaatcattt tccattcccc 420

atcttttgga gaacaagaag ggccatgacc tgttattatt atgatttctt gcaaaccaat 480

ctcacta 487

<210> 4322
<211> 524
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316093d04b1

<400> 4322

gtcttctcca agaacctcaa gcttggcatc caggaggact cccagaacag gaccaagatt 60

gctgagcttc tgaggtacca ctccaccaag agtggtgatg agctgacgag cctcaaggac 120

tatgtgacca ggatgaagga gggacagaac gagatctact acatcactgg tgagagcaag 180

aaggctgtgg agaactctcc cttccttgag aagctgaaga agaagggcta tgaggtcatc 240

tacatggttg acgccattga tgagtatgcc attggtcagc tcaaggagtt tgagggcaag 300

aagcttgtct ctgccaccaa ggagggtctg aagcttgatg agagcgagga cgagaagaag 360

aagcaggagg agctcaagga gaagtttgag gggctgtgca aggtcatcaa ggaggtgctg 420

ggcgacaagg ttgagaaggt tatcgtctct gaccgtgtgg gggactcccc ttgctgtctg 480

gtgactggcg aatatgggtg ggaccgncac atggagagga tcat 524

<210> 4323
<211> 405
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316093d08b1

<400> 4323

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aaccaccaac cactcacagt tgatgggata ctgatatatg ccagttgctg gaggagaccc 120

tgtatgaagc cacaatgtgt tatttctaga ataagtggtg ttgtattccc tgtattcatt 180

tatagttcca tgcacgtgtg atgggtatta gtactttgta attattattt tcttgttggt 240

atatgttaat ctactttgta tgtgactcga ctcgttgttt taagtatcta tgcatgattg 300

catccattta tacgaatgag ctattttgtc caaaanaaaa acaaaacatt aaataaattg 360

caaaacatac acctttcaaa aaaatagata agttccgaac aattt 405

<210> 4324
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093d11b1

<400> 4324

gctcgacgcg ctgaccgcca aggcggcgcc cgggctgtcc tcgcccgagc gctccgtctc 60

gtccacggtc accgagtcga cgtccacggc ctcggcggcg gcggagcagc acggcaactc 120

gggcagctcc gcgtccgcct ccgcgtccgt caaggaggag tgcttcacct cgtccgagga 180

gtcggaggag ttccagatcg acgagagctt ctggtcggag acgctgtcca tgccgctgga 240

cgacatcaac gacgtctgca tggagcccca cgacgcgttc ggcaagccca cgggcgccgc 300

cgacggcgac atggactact ggctcaaagt gttcatggag ggcggcgacg acgacaacaa 360

caacaacggc gcgctagact taccgcagat ttagggaggg agagagctct agtttcgtcg 420

ctgctcccga ttgatcgttc ttttttctct ctct 454

<210> 4325
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093d12b1

<400> 4325

tcgcccacgc gtccgggtca agaagatcct gcacaggatc gaaggggtgt accaatccag 60

catagacccg gagcagggga aggtgacggt gtctggcatg gtggatccgg acaccatcat 120

caagaagctg accaaggctg gcaagccagc cgaactctgg gggtccaagg ctggcatggc 180

taaccagttc cagaagctcc aacttgacgg tggtggcaag ggccaggcca aggacgccgg 240

tggcaagggc cagtccaagg acgccggcgg tgccaagggc cagaaaggtg gtggcggcgg 300

cggtggcgcc ggaggtgcta gcaaggacgc aaagatgatg atgccgccgc cgacggcgca 360

gcagcttcag cagctgcaac agcagatgca gatgaaggga atgaagctgc cgcagttcat 420

ggacgggaag atgccgttcg ca 442

<210> 4326
<211> 476
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093e02b1

<400> 4326

ctcacgcgtc cgggactggg cggcgcagcg cgccggggat tgcctgctcc agcactgcgg 60

cgggccgttc ggcgagaaca tcttctgggg ttccgggcag tcgtggacgg ccgccgacgc 120

ggtgaagctg tgggtggacg agaagcagaa ctaccatctt gacagcaaca cctgcgacgc 180

cggcaaggtg tgcgggcact acacgcaggt ggtgtggcgc aagtcgaccc gcatcggctg 240

cgcgcgcgtg gtctgcgccg ggaaccgggg cgtcttcatc acctgcaact acaacccccc 300

gggcaacttc aacggcgagc gcccgttcgc gttccttacc cttggcgccg aagccaagta 360

gtacgtacgt gtgaatgtga tcatgcatgt gtacgtacgt gcgtgtcttt atgtgtgtgt 420

ggtttgaata tttatacgtc tacgaacgct acgtacgtac gtaaataagc acacat 476

<210> 4327
<211> 536
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093e07b1

<400> 4327

tcgggaacga tggcgctatc acgcagtatg agaacatgct tgcatagcgg aagacttgcc 60

gccctggcaa tacttgtctc tggtgggatc gtattgcaga ttttggcatg tgctctttat 120

aacaactggt ggcccatgtt gacagttctg atgtacctca tactacccat gccgctcata 180

tttttcctgg gctccgattc tccatcgatc atgtcaaatg agaatgatgg gtgggtgaac 240

ttcaccaagt tcctgacggg cgcgtccatc gtgggcagca tcgccatccc gtcgatcctg 300

aagcacgccg gcgtcatcgg gtggggcgcg ctgacgatgg agctgtcctc cttcgccgtc 360

ttcgggctgg ccatcgtgtg gttcctccag atgaactccg aggacgagta cagcgccttc 420

tgatctccag cgctttatcc tctcccgcgc cttctgatct ccagcgcttc atccagtccc 480

aaacctgtgg tctgcgtgtt tctagtggcg cctcgctaga aatagggatc atcaac 536

<210> 4328
<211> 78
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093e08b1

<400> 4328

cctacgcgtc cgcccacgcg tccgcccacg cgggcgccca cgcgtccgcc cacgcgtccg 60

tctagatcgc gagcgggc 78

<210> 4329
<211> 514
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093e12b1

<400> 4329

tcgctcacgc gtccgcccac gcgtccggac aaagaggact ttgatgattt ctgttctcgg 60

gcctcggagt tggcagagca ggcgaatgga gcaccgctct tcactgtcgt gcagtcagtt 120

cagccgtcga aacagatgta caaccaggat gacgggtccg gctgttcagg ctacggcgtc 180

tccgacaaca tcgacacgga ggacctcgat ggctccggcg aaacaggaga agacgagtgg 240

cagattctct gaatgaaagg gaagtttaac ttcagttgtt cggttaaacc ttcacatgac 300

ccctgtgtga agtaaagact tcaaaaacct cgtgtgaaat ctagggtttc cagttctacg 360

gaacaagcgg gtgtgctgct tgttccgcgt agctgggagg ctggaaaagg taggagccgt 420

tatgctgatc atcggatcgg caccaagttg gttcgatggg aaattcctct gtaccatacc 480

gtacgcgctg ttgtgggtga ctgcaaaatg tatc 514

<210> 4330
<211> 490
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316093f05b1

<400> 4330

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gaaccggaag cgaactctac atccatcctc gaccgatgga tccatgggtc agcagccagc 120

cttcccttag cctcgacctg cacgtcggcc tcccgccgat ggggcacccg caccaccacc 180

aggcggcgcc catggtcgcg ctggccaagc ccaaggtcct cgtcgaggag aacttcatgc 240

agctcaagaa ggaccctgag gttgcggttc ttgagtctga gctacagcgg gtgagcgagg 300

agaaccggcg gctgggcgag atgctcaggg aggtggcctc caagtacgag gccctgcagg 360

gccagttcac cgacatggtc acggccggcg cccacgccgg cggcaacaac aacaactaca 420

acaaccagcc gtcctncgcg tcggagggcg ggtcgggtgt cgccgtcgag gaagcgcaag 480

agcgaggaga 490

<210> 4331
<211> 128

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093f07b1

<400> 4331

ttttctacgc gtccgcccac gcgtccgccc acgcgtgcgt aaaaaaaaaa aaaaaaagaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaat gaccaacaat atacaataaa 120

aaaacatg 128

<210> 4332
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093g01b1

<400> 4332

cggacgtgtg ggtttttttt ttttttgat ggagagagaa aatgggaaat tctgactgcg 60

ataaaccgag ttatggttct tggctagcag tccctatatt atgatctcaa aacattaggc 120

gaagtgggtg agattacatg cccggtcgaa tcccaagcaa agaatgtaca ggagtcacag 180

tacaatgctc tggttcctgt gacctgaccg ctagtgccac agcgccgccc ggccgagccc 240

agcccagccg gcacaaaccg tagggcgggg agacctttgc acttgcaggc acgcccggcg 300

agaagaacga tcgaggagaa gcgcctacaa ggcggcgtcg gcgacgcggt cggcgaaccg 360

ctggagcgcc tcgcgcatcc agaggtgcgg gcagcggtcc atggcgtcct gcacggtgac 420

<210> 4333
<211> 523
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093g06b1

<400> 4333

gtcaatgctg gtgccggtgt gggtgccggt gctggtgccc ttgatgcatt gcgacagctt 60

ccacagttcc aagcactgct tgcattggtc caggctaatc cccaaatcct gcagccaatg 120

cttcaagagc tggggaaaca aaatccacag atcctgcggt tgattcagga aaatcaggct 180

gagtttctcc gcctggtaaa tgaaacacct gagagtggtg ctggcgggaa tatactaggc 240

gcgctagcag ctcaaatgcc acaggcagtt caagttactc cagaagaacg ggaggccatc 300

cagcggctcg aggggatggg gttcaaccgt gagcttgtgt tggaggtctt ctttgcatgc 360

aacagggatg aagaactggc tgccaattat cttttggatc atggccatga gtttgaggaa 420

caacaataga tgttagattg gtcttgctgt tgaaagacag aagagtcagt gacagaagca 480

tttcagtttg gtgtcgtctt atatcttgct gcttgatatc act 523

<210> 4334
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093g12b1

<400> 4334

tttcttgacg cgtgggcgga cgcgtgggta aatgtaggtt tggaggaggg ggctacgggt 60

agtttaccca ccggtttact gcgtccttgt gagttgtgat cattatcatg cactcgtcag 120

ttgcttgtca tgtatggtgt tcttgaattt tcagctacat aatggtcggt tgtgtgagtg 180

aatgttatgg tgttcttgaa tgctcatgtg tcagcctgtg tgttgactgt tactgtgagt 240

caattagcta aaagaagtgt gatgtgtggg ttcagcgagg gtgtaacagt cactgaataa 300

gaatgtaagg gtcctatcct atatgtatgt ctaaaatagt aacatgtaac atgtgttgct 360

ctttctttc 369

<210> 4335
<211> 140
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093h01b1

<400> 4335

ggggaaaaga atgggtagca cacttttga ttcgtttgta gatcggtgga gatgcaatag 60

aatcatagag agggtgcagt gatgcatgcg attttatgtt caaacaagcg gccaaatggc 120

ccgaaaatac actcttgaat 140

<210> 4336
<211> 392

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093h04b1

<400> 4336

cctatcgcgt ccggacaggc ttgatggtct ggaagttgag tcaggaatca actgaaagca 60

atgtgaatga acctggatac tgtgtagtca tcttctattg tgaaatccat agctctggca 120

aggatgtaaa aagtcggtgt agaccacccg tccgaggtga agaccgagca gtatgtcaat 180

ttgagagtaa ctggtgtagc aaacattgta ttatatacca tgttctgaac agaagagcgg 240

agttattgta aaaactatct aatgtttagt tgcttgtata aaacacaagt tttgaagaaa 300

aaaaaaaaca acgaaaaaaa atgaaaaaaa aaaaaaagag gcccaactta atagaggggc 360

cccactttcg gcttttccta aatgggggggc ct 392

<210> 4337
<211> 73
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093h07b1

<400> 4337

ggtttctaaa aaacgaaaaa aaaaaaaaag gtgagaaaaa aaaaaaaaaa agaagctgat 60

gactaaccat gaa 73

<210> 4338
<211> 59
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093h09b1

<400> 4338

atttaaaaaa aaaaaaaaaa aaaaaaaaaa gaagaaaaat ttaaaaaaaa aaaggggggt 59

<210> 4339
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316093h12b1

<400> 4339

tttctttgag ctcaggagga agctatatgg ggggcggtcc aggaggagcc acgggaggag 60

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tgatggccgg gatgaatacc gtggcggcgg cggcggtggc ggttaccgtg gaggcgatgg 180

aggtgatggt ggcggttact gtggaggcgg tggtggtggc taccgtggag gtgatggggg 240

cggctatcgt ggtggtggcg gcggcggtta ccgtggtggc ggcagatgag gtggtggcag 300

gcatgatagg tatgatgatg gaccgaggcg caggtatggt ggcagcccgc cacgacgtgg 360

aaggagccct cctgcaaggg agaacagtga ggagcgcagg gccaagatcg agcattggaa 420

ccttgagagg gaggagaagt gatgaaaccg cgagtagtgg aaccgcaagc gtcattttac 480

ctttt 485

<210> 4340
<211> 471
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094a05b2

<400> 4340

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acctaccgga gatgaagttc ttctcggcgt tcgacccgcg gccggtgttc ttccgccggg 120

agtggggccg cacctggccc ttgctcgccg gcttcgccga cacgggggcc ctcatcacca 180

agatgaccgt cggcttcacc gaggaggacc tcaagatctc caagttcatg caggcgcaca 240

agatgaagta gtcgccgacc gcccggaccg tccgccgcca ggtcacaggg gcagcatctg 300

agtaaccagc atgtgtcctt gatgcgggga gacagtcctc accctcacta ttgtgattga 360

gcttttatgc ttatttttc aaatgcaact gcatgcatta ttgctgctct ggtttgtaat 420

gtaataagcg acatttgaat cgttgaatcc aagaaaaaaa cggcttcgga t 471

<210> 4341
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094a07b2

<400> 4341

gttttaaccc agtaaactac tgccacccat ccgccggcga aatggcccac ggccgcatcc 60

tccccctggc gctcgccgtc ctggccacgg ccgccgtggc cgtcgcctcc tcctccttca 120

ccgactccaa cccgatccgg cccgtcaccg agcgcgccgc ctcgacgctc gagtccaccg 180

tcctcgccgc gctcggccgc acccgccacg ctctccgctt cgcgcgcttc gccgtcaggt 240

acggcaagag ctacgagagc gcggcggagg tgcggaggcg gttccggatc ttctccgaga 300

gcctcgagga ggtgcgctcc accaaccgga agggcctctc ctaccgcctc ggcatcaacc 360

gcttctcgga catgagctgg gaggagttcc aggcgacccg gctcggcgcg gcgcagacct 420

gctcggcgac gctcgccgga accacctgat gcggga 456

<210> 4342
<211> 310
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094a11b2

<400> 4342

gtttctgtnc tttattggga acgatggctg acgcatctgc tcctgcccct gagggccatc 60

gcgaggaggg tggtcgcggc ttcggccgtg gccgtggccg tggaggccgc ggtggccgcc 120

gtggccgtgg tggccgcggt ggcgcccccg gcgacaagaa ggagtgggtc ccgtgcacca 180

tgctgggccg ccttgtccgc gacggcaagc tgacctccct cgaggagatc ttgctgttct 240

ccatgccgat caatgagcac gacatcgtcg accgcttgct gggcgagagc ctgtaggacg 300

aggtgatgca 310

<210> 4343
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094b01b2

<400> 4343

gcgtattcct ttgggttccg tagtaaacgc cttaggacta agcgttaccg gaatatgctt 60

tggaactcgt ctgtacttag gactaagatt agaaccaata gcgctttcac gcagagtcaa 120

gcatccgctg caagctctgc acagtataca gtgggtatat acgatgcctt cggcaataca 180

gctagtacct tctggaccgc gggtggaggc gcatttgcac cggatatcag ctctggtgtt 240

cctacaatta ctggtaacat tgacgtacgt ggcggtgttc ttggtatacg cgttaaatat 300

actaatagat aaaagtggat gaaaaaacca ttgcgatacc catcgtaatc gccttgcaag 360

acatacactt ttgctcaaaa aaaaaaaagg gcggcc 396

<210> 4344
<211> 476
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094b03b2

<400> 4344

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gaacgtgcgc actgtcgagc ccagccagag atgattagct cgaccttgtg gcacttactg 180

ctgttatgcc tcctctagga tttgtgtaag tgatgtggtg tgtggttgcg tagatcacgc 240

agtattaatt catctgatgg ggataataat gtttgatgtt tagtttttc tttcttctga 300

attccgtggc gaggattgat ttgcttggga ccttttctgt tgaggaataa taagcagtat 360

aatgttcgtg ggtggtatat gttggttgct gcgtgaggcg gagttagttt gaggagtagg 420

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<210> 4345
<211> 61
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094b06b2

<400> 4345

cctattcgtn cgccccaccc gtccgcccac gcgtccgggg acgcgtgggt ctagatcgcg 60

a 61

<210> 4346
<211> 486
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094b07b2

<400> 4346

gtcttcctcc tccccaacta ctcctctcct ccgcgcatcg catcgcaccg ggggtcacct 60

gagatcacat acacaatggt gaaggctgtg gctgtgctta ccggcagtga gggtgtcaag 120

ggcaccatct tcttcaccca ggagggagat ggcccgacca ccgtgacggg aagcgtcact 180

ggactcaagg aagggctcca cggcttccac gtgcacgctc ttggtgacac caccaacggc 240

tgcatgtcaa ctggaccaca cttcaaccct gctggtcatg tgcatggggc accagaagat 300

gaaatccgcc atgctggtga tcttggaaat gtgacagctg gagcggatgg tgttgctaac 360

atcaatgtta ctgactgcca tatcccnctt actggaccaa attcaattgt tggccgtgct 420

tgtgtcgtcc acggtgaccc tgatgatctt ggcaggggtg gacatgagct tagcaagagc 480

actgga 486

<210> 4347
<211> 374
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094b10b2

<400> 4347

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gcatcttttt gagttatccg tggtgatcgg atggacagcg cgaggagctg tctcgtggac 120

gacgtgagca gcggcgcgtc cacgggcaag aaggcctctc cggcgccagc cgcgccggcg 180

accatgccgc tgcagcgggt cggcagcggg gccagcgcgg tcatggacgc gccggagccc 240

ggcgccgagg cggactccgc ccgcggcggg cggctgccgt cgtccaagta caagggcgtg 300

gtgccgcagc ccaacgggcg ctggggcgcg cagatctacg aacgccacca gcgcgtctgg 360

ctcggcacgt tcac 374

<210> 4348

<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094b11b2

<400> 4348

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ccttcctagc aaagacgctg aagaacctat atctggtgtc ctgaagtacg acagtcgcat 120

ctttcaccag tggacgttta acactgaagc tcacccttg agaatcgttc cgacacatgg 180

atgtaactgc cagtcaattg aaactggaaa tccagtggct cgaccaggcg gtaggaatca 240

aggtaaacat gagtaggcct gaacaacaca acagaggatt tttgcattcg ccgagagatt 300

gtgacctgcc ttgatgagaa cgctatgata cgatgggaat ttcttactgc agcggctaag 360

actgcacata acggcactag gctaattacg caacacaatt gtaggttgag cat 413

<210> 4349
<211> 261
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094c01b2

<400> 4349

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cgcccacccg acccggcgag cgccgggggg cacacgaaag cccacgcggc ggcccacccc 120

aaccccaacg agaccggaaa ccgccaaagg ggacaaaaac cgcccaacca ggcccagcga 180

acgaaaagaa aggaccaccg caaaaacaag aaacggagag cccacccgcc ccaaaaggga 240

aaacaaaacc acccgcaaaa c 261

<210> 4350
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094c05b2

<400> 4350

caatgacaag ggcaggctga gcaaggagga gatcgagaag atggtccagg aggctgagaa 60

gtacaagtcg gaggacgagg agcacaagaa gaaggcggag tccaagaatg ccctggagaa 120

ctactcgtac aacatgcgca ataccatcaa ggacgagaag atcgcctcca agctgccggc 180

cgacgacaag aagaagatcg aggatgccat cgatgctgcc atccaatggc tggacacgaa 240

ccagctcgct gaggcggatg agttcgagga caagatgaag gagctggagg ccctgtgcaa 300

ccccatcatc gccaagatgt accagggtgc tggtgccgac atggagggcg gcatggacga 360

cgacacccca gctgcatccg gcggccctgg ccccaagatc gaggaggtcg actaaacagt 420

<210> 4351
<211> 478
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094c08b2

<400> 4351

cctacgcgtc cgcacgagtt ctggatctgc ctcctgctca ccttcctcgg gtacatcccg 60

gggatcatct acgccatcta cgccatcacc aagtaaatca aggcagccgc cccgagtgtt 120

ccggcggaat agtagtatat ttccatgatg atctcgcctg tctattccta gcgtgctcgg 180

gttattgctt gtgtgggttc tttgaattct tttccgtgta cgttgacgat gcgaatttct 240

ctgtggtttc catggaccgt gtgaagagat ttcagcttct ttatatgtac tatgtatatg 300

cactagtatc atgtatggga gtttatgcat acagtactta ttgttgaagt tagattaccg 360

cctccctgtt caagtctgga atcggcagtg atgtgtatgt agtcgggttt ctcatttgat 420

ttttcagttt ttcttcagta nnntatatat anataaagaa gcatcaggtt ctactggg 478

<210> 4352
<211> 117
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094d02b2

<400> 4352

gnatactcag acaccgccac gtacgacaat gcagggagta tttagaggca ttgttggtgt 60

tggcccaccc tgactagcga gtgctaccac aacagggcgg atcatggccc cctgggg 117

<210> 4353
<211> 512
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094d07b2

<400> 4353

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ggttgctttg gaggtagctg aagcacaaca tctgatggaa ggactagact ggcagggtgc 120

aatcaaggat attcaggctt cagttaaatg gctgaaggaa aatggatcac ccaaggttgg 180

tgttactggt tattgcatgg gaggtgcttt ggcaattgca agtggagttt tggtcccaga 240

ggttgatgct gttgttgctt tctacgggac gccatcttcg gagcttgctg atgcttccaa 300

ggcccaggct ccaatccagg ctcattttgg ggagcttgac agttttgttg ggtttgcaga 360

tgttaccgcg gccaagtcgt tggaggagaa gctcaaggct tctggagtgg cacatgaagt 420

ccacatatac cctggatgct cacatgcctt catgaacgca tcgcctgagg ccgtcaagag 480

gaggaagggc antggtttga ctgatgagaa tc 512

<210> 4354
<211> 476
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094d09b2

<400> 4354

agttaaaaca gttttccgaa gcttcgagac agggcggttg gcggcagccg cggggacgat 60

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cgaggttgtg gagacattgg cgcccaacat ggagactggg gagtctgacc cggcagccga 180

tcctggagat agccctcacg gcattgaggt cggcatcgag ttcaagccgg tggagcaccc 240

tgtggagcct gtcaaccttg accaaccagt gaaatgcccg cttcctgagc catctatact 300

gcatgatgga aggatatggc aagagaggat gtctacagcg ggcgggaggc cgaggacaga 360

cctgccggtc gtgaaggaag ggtcgcagct cgagcccgac agcagcacca caaggtcgag 420

gtctgcggtc cggaggcgcg ccatactgcc ctccgtgagc gcccctgagc ataaca 476

<210> 4355
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094e08b2

<400> 4355

gttggaatgg gtggcggcgg tggtggcagc aacaatggtg ggttcggcaa cggtggaggt 60

agcggatctg gatccggcag tgccggatac ccctaaattt ccttttcgaa caagctagaa 120

tcggagccca tcacacattt ctagtctctt catttcacta ttccacgtca tttgtgtttc 180

ttttcattcg tagagttttc actaggcgcc tcctaataaa gggctccatg attccagtgg 240

atgtattaag tagttagtgg agcaatctac taacacgtaa tcgctaccta cgtacgaata 300

cgttatgtta tgatttctga tatgtttcgc tgctagtgtg agtgcttggt tactccttcc 360

gaagcaatat gcctagctaa ggttgtctaa aaacaaagct aatggttatt ctg 413

<210> 4356
<211> 527
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094f04b2

<400> 4356

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ccgctgtcgc tggaaggggg cctcgcggcg gagctccagc cggcgaacct cgtgcagcgg 120

gtgctcagcc tcttcgggaa cgtcaggccg ggggccgatc tctcgcactt ccagctgcct 180

gctacgttca acctgccaaa atcgcagctc cagttgtacg gggaaatagt ctactgcgac 240

ggagatgact acctgagcag atgcggcaaa ggcaaggaca gcctcgagcg cttcacggcg 300

atcgtcgcat ggagcatctc gacgacgagg ccgcccatct tcggtttcgc gccctacaac 360

ccggtcctcg gagagacgca ccatgtctcc agagggtcac tccatgtcct tcttgagcag 420

gtgtctcata aacccccagt ctcggcgctt cacgctaccg atgacggcgg anacgtcgag 480

cttgtctgga gccaacaccc agtgccgaaa tttaatggtg ctagcat 527

<210> 4357
<211> 282
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094f10b2

<400> 4357

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ttacaagcct attgactgtg tagaagccgt agtccataca ccaacataat aaagccgtat 120

gggccacatt ncgctttgtt gcatgaacaa ctgataccga gaagtgcccc taacgatcac 180

cattgaaaaa ctggcgctcc ctgaatgaca aatgaaacag gcccttgatg acaccatgac 240

tcaccttggc agtggccggt tactctacaa cgtgaccgac tg 282

<210> 4358
<211> 114
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094f12b2

<400> 4358

tcggttacgc gtgcggccac gcgtccggcc acgcgtgcga ccacgcgtgc gcccactgcg 60

tgcgcccacg cgtccgtcca cagcgtccgc ccacgcgtac tgtagatcgc gagg 114

<210> 4359
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094g06b2

<400> 4359

ccttcgcgtc cgcccacgcg tccgcccacg cgtgcgccca cgcgtccgcc gacgcagcac 60

gcatccccca tagccagtgc tcctcctagc ttgcttgttc cccggcggca gagaaaggca 120

gacagaggat gtcgaagtac gtggagctgc tggacatggg cgtgcgcatc gcggccaggt 180

tccactccca ctgcccgcag acggcgcgca tgtactacaa gccgccgcag tccacctcca 240

cgtcgggcgc cgccgaggac gcgccgacgg atcggaggac cgccggcttt gacggcggcg 300

aggacgtggc tgctggcttc cggcccttcg ccgcctcggg agctctcggc gccggcgtcc 360

agccccggtt cggcttcgac accgcgcagg tcctcatcta cgaggtcgta tgagtcgagg 420

gcttgaaatg aacaacggcg acgagttctt ccggagaaag atgagatctc ctggatgaga 480

ttttttttt tttttttg 498

<210> 4360
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094g07b2

<400> 4360

gatcttctga attccaaact gaagctttcc tcagttatgt tgtatccaga attgacagta 60

catgggaata tgggactgtt gtatttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gaaaaaaaaa 180

aaaaaagaaa aaaaaaaaaa aaaaaatggg gggggccctt taaaaaaaaa aaaatttcct 240

tccccgtgaa tgcaacttaa aagtttttta aaagggaaca aaaaaaaaaa ttaaggggg 300

ggcgtttaaa aacgggggaa tggaaaaaac cttggtgtaa ccaaataaaa taccttggaa 360

aaaaaacccc tttttcccag ttgggg 386

<210> 4361
<211> 428
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316094h02b2

<400> 4361

ggatcttctg ggtgggcccg tccatcggcg cggcgctggc ggccatctac cacgtggtgg 60

tgatccgtgc catcccctc aagagccgcg actagtccac caatcaacca gccgcgaatg 120

gaatcttatc tctgttcatg gtcggtcgat cgatcatgtg gtggtggcgg tggttgctct 180

cgcgcgcgta gtacgtggat catgtctcgg ccgcgcacgc tgtaatcatc tatatctacc 240

gtgctgttcc tcccctcctc ggtgtgtgtg cctgtcggca gcgtcacctg ttcaagtctg 300

cgagttgcac tttcccttcc ttgtgtattg cactacgcac gcgatttaat cgggcgtgca 360

tatctatgca aattattacg tattatgaag gaaggacgat cgagttaatc gcccttncca 420

acagttgc 428

<210> 4362
<211> 541
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094h04b2

<400> 4362

ggttgtgttg gcatgggtgc tagtgacgag gctgaaattc atggcattga tgtatctgtg 60

caaagaaccg agagtggtgt aggtgatgca gaacctatta ctgaccttac tgagacaatg 120

ggccataccg gtgaatcagt tccagggcct ggattgatgg atgagtttgt acctgaagaa 180

gttgatcggg aagaacctca tggagacagc caagatattg tgttccgttc agcaggccgt 240

gctgacagtg gatcaaaata ttttggttct aataaagctg attctggtga gagtggaaaa 300

aagataggac atgccattgg tcatgaaagc agcatgcatc cttctctctc ttgcaatgct 360

ggggtgtatg ccggcttcga tgcatctaaa gaggaagtga cacaggctgg caaagcagtg 420

actactgatg atcaaggctt gcaatatgat ctgcggaatg gattacgagc aacacatgga 480

gaaaatgact atgaaccagg tcttccaaga tttgatcctt gtaagcatca caacagttac 540

t 541

<210> 4363
<211> 55
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094h06b2

<400> 4363

acccgtcccg gatttccggg ttggccccac ccgtccggtt tttcctagat cgcga 55

<210> 4364
<211> 82
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094h08b2

<400> 4364

tttacgcgtc cgcccacgcg tccggccacg cgtgcgccca cgcgtccgcc cacgcgtccg 60

cccacgcgtc cgtagatcgc ga 82

<210> 4365
<211> 290
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316094h11b2

<400> 4365

gttaggtcaa tggcagggga aaggaaatac gaggatgaga aaaagatcag agagaaggcc 60

aagaagatac gatcaacagg aaagtctccc cgtggatgct gcttttgaga cattgccatt 120

ctacaaaatt tgaaacaaaa tgaatggtgc gacttgaatg cgatatgagt ctcacaacag 180

ctatgtattg tattataaaa cgtatttggt ttgatgagtg ataagagtgt acagttgcat 240

ccaacatgca attgcattgt atcaggatca gcctcgaagg acaaaactag 290

<210> 4366
<211> 194
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095a06b1

<400> 4366

ccctcttgtc cgtgcatgct tgataagttt gtgattgatc acatgatcag tgtatctcat 60

tatggcatct aaatgcatga ttcatgtatt tgtaaaagga ttgtatgtgt atgaggaata 120

aatggttcgt ccaaaaaaaa aaaaaaaact cccctaccgc gaccaaacgc actcccacca 180

attcagagcg caag 194

<210> 4367
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095a07b1

<400> 4367

tttatgattt gcgtcgcggc cacgataccg cgataagttc cttctatagt ttgctgggat 60

ttttgggtcc ttccagctcg agtttttggt cgcgatgctg atgacgtgtc cggtgattca 120

gaggtatagt aataaataat ttggcaaaac tcacggatgc taggcgctag gcacttgtac 180

cgttgtacgg tccttgcaag cttgtaatgc tgattaatta tgtatgatgg catcttcaat 240

tagccttttg agtgctatat ctcaaagttt ctttttttggt caaaaaaaag tgaatacggg 300

ctggtcgt 308

<210> 4368
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095a10b1

<400> 4368

tttgttaaag gcagcctcaa gctgttccag aggcggacca tcaagcaagc gcatcaaagg 60

gagcgctggg ggagcaatgt ccccttgcaa ggctggacgt acaagcgaca acaccggtgc 120

accatcttgg cccgacaccg gcaccagaag cagcagcacc accgcattca tcggctctcc 180

agcctcccat gtcttctacg gtaccggatc tccctactct tatgataggt cagctgggca 240

cgccctctac tggggccaga gcccacttcc aatgagggag ccatatgcat acccacctgg 300

tgagccggag cccaatgttg gccttggaat gccataccaa gcccctccca tgacctaccc 360

caaatacgcc ggaaacaaca acggcctggg agcctatggc aatgccatgc ccccagcctc 420

aggctttcac caggcttact accgggagaa tcagccagtt ggaaatga 468

<210> 4369
<211> 454
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316095a12b1

<400> 4369

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gcagcctcgg ccgcagctgg ccgtggcgga ggaggccatc gcgctctacg acacctactg 120

gttccaccgc ctcgtcctca acgcctactc ccctcccgcg ccccagccgn cgccgccggc 180

gcctgagcgc gagcangccg agcaggcgcc ggcggaggag agcaagagcg agctgcggcg 240

ggccccgtcc gggctgcagc ggcaccgcag gacgcggagc gacgaggcca aggccgccgc 300

gttccacggc cagctggagc cgctcaagat ccccaacggc caccgcgcga ggctcgagac 360

catcctgtcc gggaaggacg gnctggccgc gccggagccg ctgcccgagc gcccgaagcc 420

ggaggcgctg cggcccggcg ggaggaggcc gaag 454

<210> 4370
<211> 512
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b01b1

<400> 4370

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actggcgagc atccaagaga gcatcgagga actgaagcgg aagatgggtg gcccggccaa 120

ggggcactcg gaatacgaga gcgtgagcag tcagctgcgc gagacggagg ggctggtgtt 180

ggagcagatg aacctcaaca gcaagttggc aaagaaggcc gagaattacc ctgcgctgtt 240

ggatagcatg aacgcggagc gggaaggtgg ttttccaagc aagaggaaga tgttggagca 300

ggtgcggaaa gggtcggaca aggtggcgag gctggagctg gagcttcaga agatacagta 360

cgtgctgctg aagctggaag aagagcacga gtacacaagg ctcaaggtgt cggagaagcg 420

cacccgggtg ctcctcaagg attatctcta cgggaggaag gaccaccgtg gaaagaagaa 480

gagggcaccc ttttgcagct gtgtgcgctc ta 512

<210> 4371
<211> 512
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b02b1

<400> 4371

gttcatcgtc ttccagccgc ttccttcccc atgcgtcccc ggcgtcactc accgtgcaca 60

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gcctacccct accccgcgca aggttactac cagggagggc cataccaggg gccgccggtg 180

atggcgccgc cgcagtacgc cgcgccgccg ccgcgccccc agcccagctt cctcgaaggc 240

tgtttggccg cgctttgctg ctgctgcctg atcgacgagt gctgctgcga ccccctccatc 300

atcttcgtcg gctagatcac ccaaggccaa gccagggcat ccggcctggc atgctgtcaa 360

ctgtacaaag agatgccctc atcaaggata tttaccacgt tgttgccacg ctatataata 420

tatcatgatc tctctcctcc atatatatga acgtattccc ttattattgt tatctcacta 480

gtcactacgg tgttgcctgc ctttgtaact cg 512

<210> 4372
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b06b1

<400> 4372

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agaaaaggat ggaggagagc cgttcctccc tgctttgggt tgtatccagg aggtttgtgt 120

agatggacaa gatatcagcc ggattagcag atggctcgcg tcacttccca acctacacat 180

gttgtttttc aacggtccga agatagagca gcaggatatt gagatgattg gattgatacc 240

caatctgatc gatttgttgc tgcctttaca caaaacagac gacgctgggc ggctcatcat 300

taggcgcgaa ggatttcaac agttgcagag tttccc 336

<210> 4373
<211> 511
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b07b1

<400> 4373

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ccatggcacc caaggccgcc gagaagaagc cggtggagaa gacccccgcg ggcaagaagc 120

ccaaggcgga gaagaaggtg ccggcgtcca aggagggcgg cgacaagaag gggaagaaga 180

aggccaagaa gagcgtggag acgtacaaga tctacatctt caaggtgctc aagcaggtgc 240

accccgacat cggcatctcc tccaaggcca tgtccatcat gaactccttc atcaacgaca 300

tcttcgagaa gctcgccggc gagtccgcca agctcgcgag gtacaacaag aagcccacca 360

tcacgtcccg cgagatccag acctccgtcc gccttgtcct tcccggcgag ctcgccaagc 420

atgccgtctc cgagggcacc aaggccgtca ccaagttcac ctcgtcctag gctcctcggg 480

cgtagagact tgtgtttatt tcttcttcct c 511

<210> 4374
<211> 232
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b08b1

<400> 4374

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taggatattt ccaaggaaca cctaagttgt ctttttttg tctgactagc tgccgctgct 120

tgttgagtta ttctggaatc tgttatgcac tttgagattg ggtgcctttg ttcgaaatct 180

atgagctgtg tctgtcgcta tctctgaata attctatttg cactattacg tt 232

<210> 4375
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b09b1

<400> 4375

tcttttacgc gtccgcggat tgttggttac ctctcactgc gtgtgaaaca gctagacgtc 60

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cgtgcccttg ttgataaggc atctgatgcc ttctacaaac tgagcaacac aaagcaacaa 180

atccagtcgt acgtctttga tgttattaga gccactgtcc caaagctgga gctggacgat 240

gcatttgtgc agaaagatga cattgcaaat gctgttgaag aggagcttga aaaggcaatg 300

tctatgtatg ggtatgagat tgtgcaaact ctgatagttg acattgagcc tgatgtgcat 360

gtcaagaggg caatgaatga gatcaatgca gcttttagga tgaggtcggc agtcaatcga 420

caaagcatag gctgaataga ttcttcagat taaacgagca gagggagaag ccgagtcaaa 480

gtccttggct ggtgtgggat tga 503

<210> 4376
<211> 168
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095b12b1

<400> 4376

tttgtatgtt gtaaatacag agccatatga gcattagcta acttttgctg tgccgtgcgt 60

attgtagttg taaatcttag gaagggtgtc tcaacttgta acacttacac tgtatcggtg 120

cagacgtttg attttacgta tgatgtgtac tcaaaacaac aatgacgt 168

<210> 4377
<211> 348
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095c03b1

<400> 4377

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gaaggaaggg gatctcatca ttgaaactgg tgaagatgtg ccagaatatc cccaaatgta 120

cttcaagttc tctgaatctg gagattccat catccccttg gaatgaatca ttggagaagc 180

acacgataca tgaataggag aaatgcatca cactcgagtt tggagaagaa aaaaggatac 240

aaggacaaag atagatcagt attctgctct aaagctgaaa ctctttgtgg gatccatgtt 300

acttgattct attatggacg tatgaattgg ttgtatatat ttacatta 348

<210> 4378
<211> 295
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316095c05b1

<400> 4378

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acgccgtcgc gcaggcatcc cacttcctct tcaccagcta ggctgctgct gcatcgatcc 120

gataggaaaa ttaatcttct tcttccttgt cgnttcttct tctctccgct gttcatagag 180

tcaggattca agaaaagaaa aggcactgtc gattgggtga atgaactcca tgtgtactgg 240

cgccgccgca cgggaaactc tctgaaatat aatcgacata agcttctacc gcttc 295

<210> 4379
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095c08b1

<400> 4379

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tatgaaccag ggtaagtaca tcgacgcgct gttggagtgc ctcaaggagt ggaacggcta 120

gcccctgcct ctctgctaat catggagatg acgagaagat gctgtgcttt atgattctga 180

atgctccctt tgttctgaac tgataatgtt actgtttctc gaatttatac tcctatt 237

<210> 4380
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095c12b1

<400> 4380

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ataggccgcg gcggcagcga cgggagcagt cgccacggca ggagcgtgcc gttgggccag 180

tccgggcggt ggccatcgtt cctgtcgcgg accttctcgg cggcgtgggg gtcgacgtcg 240

acacggaagg ccgagtagga caggtcgagc aagggcggga agccggacgg cgccggcggt 300

aagtcagtgg attgcaaaca ccaagtagtg cgccgctggg caacgtgaat agtttgaccc 360

gggccgtggt caaaccgggc atggttacga aacggttgct gggaatggga agaaaacggg 420

cgatggtttt cgtggtggcg aggaacttct tgttggcggg gtgtttttttt taggggacaa 480

atttttt 488

<210> 4381
<211> 225
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095d07b1

<400> 4381

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ggtcatatac aaggttgaag ctattgtata gtgtgaccta ggtccgctca agtagtcgga 120

ggtcaacaag ctagtgactg ccacaaccga ggggttgccc atctaagaga gctaggacta 180

gaagaatatt taggcagatc ttatggagaa gatagggccc taccg 225

<210> 4382
<211> 65
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095d12b1

<400> 4382

tcgttcacgc gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtcc ggttctagat 60

cgcga 65

<210> 4383
<211> 85
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095e02b1

<400> 4383

ctcattcgtc cgcccacgcg tccgcccacg cgtccgccca cgcgtccgcc cacgcgtccg 60

cccacgcgtc cgttctagat cgcga 85

<210> 4384
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095e05b1

<400> 4384

gtcttaacag caagaacaag agcaggaata tatccatcca tatacagcag caagcatacc 60

ttcctcgcct ttctccttga ggttcatcgc agaaacaaga aactcgcagc catggacaga 120

tctgctgttt ctcaggccct tccggtgcac caggaagacg aggacctgtt cgagacctcc 180

tcctccttct cctgcgactc cgacgacgag gcccagttct cagacggcga ggaccagttt 240

gtgccggctt ccccgccggt gcggagactc aactctgaca gcgtctacga tctgtcgtcc 300

atgaaggccg aactctccgc caagaaaggg ttgtcgaaat actacgacgg aaagtcccag 360

ccgttcgcgt gcatgttcga ggtgagatgc ctggaggacc tgcccaagaa gag 413

<210> 4385
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095e08b1

<400> 4385

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tcctcttcgt tgtctgatga attctgtagc tagctgtgtg tgttctgaca gcgtcatact 120

gtaacaatgg tgctgcctga ataaatagtc atgttgctgc ttgaatggac gactgtcgcc 180

ttggaaaaaa aaaaaatata aaaaaaaaaa aaaactacaa aaaataaaaa aaatatcaaa 240

aatcaaatca aaac 254

<210> 4386
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095e10b1

<400> 4386

ttttttcgcg tccggggaat ctcagctgat gacatggaag cagtttacaa gaaggttcat 60

gctgccatcc gtgctgatcc caccatggcc aaatcaacca aggcgcctcc caagactcac 120

aagagataca accccaagaa gctgacctat gagcagagga aggccagcct cgttgaaagg 180

ctcaacgccc tcaacaactc tgcgggtgcc gccgatgacg atgaggacga cgacgagtga 240

agagctcttt gtccacccca gtgtagtctt gcaacgtgcg tttttgttaa agtccggcac 300

tctgcacaat gacctgttcc attgagttct gtttgtcctg ctggagttat agattgtgtt 360

atctgggtta tgtgccgtgc tggcatttgg atctt 395

<210> 4387
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095f03b1

<400> 4387

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tgacgcataa gatcgtgatc gcggtgcaga tggggagcag caggtgccgg tccaaggcgc 120

tggcgctggt ggcggccacg ccgggggtgg actcggtggc gctggccggg gacggcaagg 180

accaggtagt ggtcgtcggc cacggtgtcg actccgtcaa gcttaccagc gcgctgcgca 240

ggaaggtcgg acacgcggag ctgctgcagg tcggtgacgc caaggaggac gggaagaagc 300

cggt 304

<210> 4388
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095f07b1

<400> 4388

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ggccgagacg ctggtgtgga tcaagggtga cacaagcgaa cttcgcctcg ccaaggaagc 120

gctcgagacg atgtgctttg tgctgccgcc ccttgcgcgc tgtgacgtgc tctcgtccaa 180

gtttgacaac cttgaggaac tcgtgagcca aggcaagagc ccgagccagg catgccacgc 240

gatcagcctg tgtgacgcgg cgtttgtgga gaaacccgcc ccttcgaacc gcattcatga 300

tctcgtcgag gagcagtaaa cttcagatcg acgtgtcgct ccatggatga agtggtggcg 360

gccttcctag cttgcttttt tccacgttaa 390

<210> 4389

<211> 350
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095g01b1

<400> 4389

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ttggcgctca ttagggtggt cactatcatc atcgcggagt caatcttcaa attggaaatg 120

ttttccttcg tttcgttctt ttttttatag agggaagatc tggctttaaa gaagaagaat 180

tcctgcacct gtccatgcaa tacaaaaagg gcgtcccgtg gtagtgttgt tgaaccgcta 240

atagcaaaat tcactccgtt actgtaatta gaacccaatg ccttcagata agggctcaga 300

tagcttatgt ttaagctttc acctggatat attttggtca ttcatggacc 350

<210> 4390
<211> 471
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095g05b1

<400> 4390

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gatggccagc aagtgggtca ggcccgaggt gtacccgctg ttcgcggcga cgggcgtggc 120

catcggcatc tgcgccttta gcctccttcg caacatcacc ggcaacccag aagtcagggt 180

caacaagatg gggagggcag cgggagtgct tgagaaccat gaggagggca ggcgctacgc 240

cgagcacggc ctcagagcct atgtgcagga caagaccccc gagatcatgc caggaatcaa 300

caagttcttc accagcccaa aatgaagcac tttagtctgt ctgtgactcg caattagtaa 360

ctgttgtggt caagtgcaaa cctatttcaa gcattcagta atgttgttgc gtccataatt 420

cagaggacat cgtcaattac ctcttattgg aagaaccatg tgatgtttga t 471

<210> 4391
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095g07b1

<400> 4391

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agatgtcggg ccgcggcaag ggaggcaagg gactcggcaa gggcggcgcc aagcgccacc 120

ggaaggtgct ccgcgacaac atccagggca tcaccaagcc ggcgatccgt cgtctggcgc 180

ggcggggcgg cgtgaagcgc atctcgggtc tcatctacga ggagacccgc ggcgtgctca 240

agatcttcct cgagaacgtc atccgtgacg ccgtcaccta caccgagcac gcccgccgaa 300

agaccgttac cgtacatgga cgtcgtgtac tcgctcaagc gctaatggcg caccctttac 360

ggatggccag gctaggccgc caccagatta gctagcctgt gtctagggt 409

<210> 4392
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095g09b1

<400> 4392

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tgtagatgga caagatatca gccggattag cagatggctc gcgtcacttc ccaacctaca 180

catgttgttt ttcaacggtc cgaagataga gcagcaggat attgagatga ttggattgat 240

acccaatctg atcgatttgt tgctgccttt acacaaaaca gacgacgctg ggcggctcat 300

catcaggcgt gaaggatttc aacagttgca gagtttccgg gtatacaata ctcgtatggg 360

aagtttaatg tttgaaccgg gggctatgcc gaggctcaag gagcttgaac tccggaactt 420

tatcgaaagg cccaaatctg ctgaggtcga tcttgacttt 460

<210> 4393
<211> 64
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095g10b1

<400> 4393

cttttgttca tatgccagcc agtgtgaaat aaaggatcat tttgcccttа catgtctgac 60

caaa 64

<210> 4394
<211> 86
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095h01b1

<400> 4394

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaa 86

<210> 4395
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095h04b1

<400> 4395

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaataa aaaaaaaaaa 120

aaaaggggggg gcccgtttta ggggacccaa tttaacttcc cgggctaggc accttaatat 180

ttttttttttg gggcccctaa aataaattta tggggccgcg ttttaccacc ggtggat 237

<210> 4396
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316095h11b1

<400> 4396

ttggttggtc aattgaagtg actattaaag ttgtgaagac agaatttcat actggtagac 60

ttattttgtc cttttcgccc caattagctc agactactat tacaaattct aatacaaact 120

atgttcatcg tgagatagtc gatctacgtg atggctctga gtttgtgatt aaagtgcctt 180

attgctacaa ctctatgtac atggatactg accaagctca aaatgattta ttcatgatga 240

tgcaggtcaa tgtattaaat gaattggtag ctccagacac ttgcgcacaa agcgtagaaa 300

ttttgtatga ggttaggggt ggagtagaca tggaatttca agttccagtt cctttcaatg 360

ttgtaccagt tcaacagata gttcctcaga gtggtggaga aggccaagct gagttagttc 420

ttgattcttg aattggtagt tccactgtgc atgacccgtc taagatgtct tgctgagc 478

<210> 4397
<211> 59
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096a01b1

<400> 4397

acgcctacgc taccgcccac gcgtccgccc acgcgtgcgc ccacgcattc acccacgcg 59

<210> 4398
<211> 477
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316096a06b1

<400> 4398

cttattcgtc cgtaccccga ttccccttcc cctgtgcgat cgatactctc tagggttcat 60

cggcggtcac accaagcaag gatgactact tcaaggcgtc ttgctgacag gaagagtgcg 120

aagtttcaga agaacgtcac aaagaggggc tcagtgcctg aaactactgt gaagaagggg 180

aatgactatc ctgttggacc tatcgtgctt ggattcttca tctttgaggt cataggatca 240

tccttgtttc agattatcag gacggctact agtggtggga tggcttaata tcaagctgaa 300

aacaagacga tcattatcag agatttattt tatccatgtg tctgggaggc aatatcatat 360

ctgtaccctg tagcaaactt caaccctgat gatgctatga ggagatttaa atcttgcgca 420

gngagagttt acctnctgtt actaanaacc taggctaaac tagaaactaa atggtgc 477

<210> 4399
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096a08b1

<400> 4399

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gggaatcgat gcggtgctaa ggagtacacg cgcagcgcga ggcgatggag gagtcatggg 180

tcgatgcatt tcttgtttgc ttcgtgcacg cagctacaca cccgcggcac cgagcgtggc 240

cggtggccgc tggcctgcat ttcgtttcct ctgaatccct ttttcacgga gcgatcggtc 300

atagtacatc gatcattcgg gatgtaaatg tttctggaaa ggatggagga ctaatccata 360

atacctaaat agttgaaccc attacttta aaaaaaaaaa agaacaaaac gatcgtcctt 420

accaaca 427

<210> 4400
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096a09b1

<400> 4400

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gaccattata tatgtaacag attattctgg agttatttat ttcatattat atttaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaagg aactaactta acaaggaaac aaaaatacac acgaaagaaa gacaaactag 240

tactctttgt ggggggcccc cttaagggaa ctaactggca cctcctttaa aatcgccact 300

t 301

<210> 4401
<211> 219
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096a11b1

<400> 4401

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gtatatgaag gagcaatata tgtgcaaaag gatagcagca gagcacttct ttggctgttg 120

gaaaaatggg caccaagctt aaggatttac acaattttct caaacaagta atcaatctat 180

ctatgtatct atcacaaaaa aaaaaaaaac aagagactg 219

<210> 4402
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096b04b1

<400> 4402

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gagcattatt tcgatgctct ctagtccaaa cgatgagtct ccagcaaata ttgaagcggc 120

taaggactgg agagaaaaga gggccgaatt caagaaaaag gtgaggagcc ttgttcgcaa 180

atctcaggaa atgctctgaa aaaggaggat catccggggg agtccacaag cgctgcaatt 240

ctcttgcttt caccaaatgg ggcacctgat gccagcactt gaacttctcc cctgtttatt 300

ttccgttcag cgtcggtcga aggctgttgt tggtcttgtc tctccgagac actcggggtg 360

ctgcctatta tgaactctcg attttattgt ggcatggagt tggtcaatgt caagaagtat 420

tttcgtgtga tgccacttaa tcgtagttat cggcggggac cccacaaaaa 470

<210> 4403
<211> 498
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316096b06b1

<400> 4403

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gaccggccaa agcaagcagg tcaccatggg cggcgggcac gacatgcacg gcggccacag 120

cggcggagtg aagggcttcg tgtccagcct cgtcggcggc ggcaaaagcc acgggtacgg 180

cggccagggg cacggttgcg accagggcta cggcggccac gggcagcagc agcacgggta 240

cggcggccac gtgcagcagc acgggtacgg cagccatggg cagcagcagg ggtacggcgg 300

ccacggccag cacgggtacc ctccgcccgc cgccggtgct tgcccccgt acggcggcta 360

cccggcgcaa ggctacgcgc cggcggcgta ccccgcgcag cccgcgccac accacggtgg 420

gcaatgggat cgtanacacc ggcactgcgg cgggccgggc acgctactcc gcgggagcac 480

atgggcggtg caagcacg 498

<210> 4404
<211> 277
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096b11b1

<400> 4404

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acgcgtccga tcgagcgagc caacaactcg cagccaccac aatttcgaaa tacctcctgc 120

ctgcctgcaa gaaacgagcg ccgagaaaga aatggaggcg gcggtcggcg gcagctggac 180

acgcgtgcgt acgctcggcc gcggcgcgtc cggcgccgtg gtgtccctcg ccgccgacga 240

cctctcgggc gcgctcttcg ccgtcaagtc ggcgccc 277

<210> 4405
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096b12b1

<400> 4405

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tgatttatca ttatcaggtg gtctgggtct gtttttagtc cagtagactg tggtgttgct 120

gttacattca tggtcactat gtcacagggg ggcacactgt gccaccagta atgtcgaatt 180

gtttttgagt tttggcacac tttaagatcg ttttgtcagc gcaatgaaat ctaccttcata 240

gataaata 248

<210> 4406
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096c03b1

<400> 4406

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agtttgatat ggcgatcagg aacgtgacgg cggcgacccg gtcgctggac ggtgacatga 120

cggtggacga gttcaaggag tggctccggc ggttcgacgt ggaccgcgac ggccgcatca 180

gccgcgacga gctgcggtgc gcgatgcgca ccatccggac gcgcttctcg gggtacaaga 240

gcaagcgcgg catcgagtac gccgacgccg acggcgacgg ctacgtcgac gacggcgagg 300

tggacgggct catcgagtac gcgcagaaga gcctcgggct caggatcgtc gcctactgag 360

aggagtctag ctaggtctct attaagcgaa gctagctcca tatctaccca tgcatgctag 420

aataagcgct gatctatcgt ttgctactgc cctgtacctt tgctttcttg tctacttatt 480

ggctaat 487

<210> 4407
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096c04b1

<400> 4407

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gcgtccgccg cgcggaaccg ctcctcccac ctggccagca gcggcgtcct cgccgggtcg 120

atcagccggc gcccgatgat cttgtcgatc gcgccgaacc agccgaggta gccgccaagc 180

acgacgtcga cgaacccgat ggcgtcgccg ccgaagaacg ccttcccctt ggagcactcc 240

gcgaacgcgc cctccagggt ctccagcgcc gccacggccc gggacaccgc ctgcgcccgc 300

tcctcctccg tcttgcacga gaagagcata cccgttcacg ccgacccgac cttgtcgtag 360

acgaacgccg cccagaagcg cgccgtggcg cgccgtaagg ggtctcccct ctaccgtct 419

<210> 4408
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096c06b1

<400> 4408

cttctttgct cagggagatc gaagctcggt acggcgtctg ctacgatgct cggagcaatg 60

aagcttgttc tcaggaggga gaagagcaga gctgcgggga cattttcgtg tgacttggcc 120

ggttacttct cgacgtcgtc cagctgccag aggctgtccg gtaaagtcgc cgtgatcacc 180

ggcgcggcca gcggcatcgg caaggcgacg gccgtcgagt tcatccggaa cggcgccaag 240

gtcatcctcg cggacatcca ggacgacgcg ggccgctccg tggcggccga gctcggcccg 300

gtcgcggagt acacccgctg cgacgtgacc gacgaggcgc atatcgcccg ggcggtggac 360

ttcgccgtgg tccgccacgg ccggctcgac gtactgtaca gcaacgc 407

<210> 4409
<211> 82
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096c09b1

<400> 4409

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aagaagaaaa agtcgtgcga gg 82

<210> 4410
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096c11b1

<400> 4410

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cctgcgccct catgctcttc ctcttgtcat ggttgacctt cctcgtcgca gcggcgtgtt 120

cgctggctgg atcagtccgt aatgcatacc acacccggta caggggggatc ttcaacggtg 180

acccgctctc ttgcgagacg ctgcgcaagg gcgtcttcgc tgccggtgca gccttcacct 240

tcttcacggc catcctcagc gagttctact acatcagcta ctccaaatcc cgggatgccg 300

ccggcggcgc tccatacggc ggctccagca tcggcatggg cccttataat taaggagctt 360

ggttctggag gtttatggaa aggttcagtc cgtttcactt tcagggcgga tcatgcatat 420

gtag 424

<210> 4411

<211> 325
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096c12b1

<400> 4411

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catagatcga tgcctgctca gtccaccgct gtcatctact accactgtcg gcgacgtttg 120

tcccgttagt ttgagaagat ggattgttgc gcgcgcagta tgtttatgtc tatgagtttt 180

gtgtcacttt gtacccaaag atatgttttg taagctggta attcttgtga atatgatttg 240

attacttttc ttgaaataaa aaaggaactt gataacacaa aacctaaaca ttaaacatgg 300

acgaaaatat acaacaaaaa gactg 325

<210> 4412
<211> 491
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096d09b1

<400> 4412

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attggtcgct ctgggcgttt tgggcgcaag ggtgtggcga tcaactttgt gcgcaaggat 180

gacatccgta tccttcggga catcgagcag tactacagca cgcagatcga cgagatgccc 240

atgaacgtcg ctgatcttat ctgagctctg gaccggatca atccctcccc tctcttgtc 300

tcggtgcgat gtttggggaa tttggttgcg ttgcgatgtt tggatgtatt tctggtgctg 360

caacttgaga tttcttttgt tgcttttggg aacatgggaa gtgtatatat tctttctcgg 420

attgaccacc agctcatgta aaacactctt ttggtgttac gctattttct gattcggacg 480

ccatgacaga c 491

<210> 4413
<211> 249
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096d10b1

<400> 4413

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gtgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa 120

aaaaaaatat ataaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa aaaaaaaaaa 180

aataaaaaaa aaaaaaaaaa caaaaaaaaa agccggctgc cttttaaaaa aaaaaaaatt 240

tttctctcg 249

<210> 4414
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096e01b1

<400> 4414

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gatgtcttgc tgcggcggca actgcgggtg cggcgccagc tgaagtgcgg caacggctgc 180

ggcgggtgca agatgttccc cgacgtggag gccaccgccg gcgccgccgc catggtcatg 240

cccaccgcct cccacaaggg gagctccggc gggttcgaga cgggcggaga gaccggcggc 300

tgcgactgca ccacctgcaa gtgcggcacc gcgtgcggct gctcctgctg cagctgcaac 360

tgagccggcg cccaggaggc cggccggcag aggcgagcac gaggatgagg aggacaagca 420

agcaagcacc atcaccacca gtttaccacc acccagcgta tcatcaccag ccgccgcatg 480

cgctcgcggg cgcgcgc 497

<210> 4415
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096e08b1

<400> 4415

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gctacggcca gggaggcggt ggcggctacg gccagggcgg cggtggctac ggcggccagc 180

gcggtggcgg cggctacggc ggcggcggcg gcggctacgg cggcggcggt ggtggctacg 240

gcggccagcg tggtggcggt gactccggcg gccagtggag gaactgagcg gcggggccct 300

ccagttatcg atctatctac catctcgtcg tcttcgtcag caagttatct tcagttcctg 360

tgtcagtcag tctgagtcgt cgtgtgtgtc gttgagtcct gtggtgtttt tgatcgcgag 420

ctcgagtgtc gcttctgccg gggttaatca gagctgggta cgcgaggaag aaac 474

<210> 4416
<211> 492
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096f01b1

<400> 4416

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agctgcctgc aacgcaatgg agacgttgct tgttcataaa gatcttatga agactccaga 120

actcaatgac atactagtag cactcaagac agcaggagtt aatctttatt gtgggcctgt 180

tgcgcataaa gtattgggct acccaaaagc agattcatta catctggagt acagttctat 240

ggcttgcaca gttgagatag ttgatgatgt acaatcagca attgaccata tacatcgcta 300

tggaagtgca catacagact gtgtggtcac tacagatgat aaagtagcag agacctttct 360

acgtcaagtt gatagtgctg ccgtattata caacgcgagt acaagattct ccgatggtgc 420

tcgttttgga ctcggtgctg aggttggcat aagtacaggc cgtatacatg cacgtggacc 480

tgtgggtgtt ga 492

<210> 4417
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096f07b1

<400> 4417

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tgagcagcat ggatgtatgc gaccgtggct cgttgttgtg cctgatagaa gaaccggccc 120

gactgaggtt gtgtgcactg ctaaaccaag agacccgagg gaggatatgt gagctgcctt 180

gacgcttggc atacaagagg agaaaatgca aggcctgcgg aatggcatct catggaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaac aaaaaacaaa aataaacacc cactctacca 300

acgggggggg cccttctaaa ggacccaact caccttccgg ggggggccac tcccaaggtt 360

ccaatt 366

<210> 4418
<211> 334
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096f08b1

<400> 4418

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gcggaggccg ccaagatgga cctcctcgag gacgacgacg agttcgagga gttcgagatc 180

gaccaagaat gggatgacaa ggaagatggc aacgaagctg tccagcaatg ggaggatgac 240

tgggatgatg acgacgtgaa caacgacttc ttactgcagc cgtggaaaga agctggtggg 300

cggtttcccc caaccgagct gcccctcttc cccc 334

<210> 4419
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g07b1

<400> 4419

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gcgagatggt gtacatcaag aaccagaaga caagggcgta ctccaagcgt ttccaagtca 120

agttcaagag aaggcgccag ggcaagactg actacagggc caggctgagg ctcacaaacc 180

aggacaagaa caagtacaac actcctaagt accgttttgt tgtgcgattt accaacaagg 240

atgtcactgc acaaattgtt tatgctacca ttgctggtga tattgtgatg gccgctgcct 300

actcccatga gttgcctcgc tatggtcttg aagttggcct caccaactat gctgcagctt 360

actgcactgg tctgcttttg gctcgtcgtg tgcttaagaa ccgtgatctt gatgaggagt 420

atgaaggcaa tgttgaggcc actgctgagg acttctctgt tgagccttct gatgagagga 480

ggccttttcg tgcgctct 498

<210> 4420
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g08b1

<400> 4420

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cgctgcagtc gccgtcgccg acggaggttt cgtcctcggg ccaccgctcc cggtcggcct 120

cctcgtagaa ccccagcacc atgttcgaca ggctcatctc gtcgccggcc tccgccacaa 180

ccatttcctc gtgcttggtt gtaaatctgg tgtgcgtggc tcacgttgct ccgtggtcag 240

ctgcagggtc cttcccgccg gcttgtatac ccggagacgc ggcggacgtg gcgaggcggc 300

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tgggcccccc ggt 373

<210> 4421
<211> 496
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g09b1

<400> 4421

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gtgccccgtg cggaagcacg tggagcgcgc gtcccacgac ctgcgcgccg tgatcaccac 120

gtacgagggc aagcacaacc acgacgtgcc ggccgccagg gggagcgccg cgctctaccg 180

ccccgcgccc cgggcggcgg acagcaccgt gagcaccggc cactacctta acccgcagcc 240

gtccgccatg gcgtaccaaa ccagcacggg aggccccaac gtcgccgccg ccgggacgca 300

gcagtacgcg ccgaggcccg acgggttcgg cggccagaac cagggctcgt tcggcttcaa 360

cggcagcttc ggcttctccg ggcccgggtt cgacaacccg acggcgtcgt acatgagcca 420

gcaccagcag cagcagaggc agaacgacgc gatgcacgcg tcgagcgcca aggacgagcc 480

gagggaggag gacatg 496

<210> 4422
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096g11b1

<400> 4422

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gacctttggt atcttcttgc acgagcttct atacggcaag acaccattca aggggtcagg 120

caaccgcgcc acgctgttca acgtggtcgg tcagcagcta aagttccccg agtcgccgtc 180

gacgagctac gctggcaggg acctcatcag ggggctcctg gccaaggagc cgcagcagcg 240

cctcggcgtg aagaggggcg cgacggagat aaagcagcac ccgttctttg agggcgtgaa 300

ctgggctctc atccggtgca gcacgccccc agaggtcccg aggcccgttg aggcggagct 360

gcccatgaag tacggggtgt cggaggcagt cgcgagcacc aacaagaggg tggtcggcgc 420

ggacgccaag tccggtggga agtaccttga ctctgagttc ttttagagtt tgcgccttaa 480

cggcagatcc 490

<210> 4423
<211> 257
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096h02b1

<400> 4423

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tgccgatcaa gatgaatgct gtggaaggtg ccgccgtgtg ggaataagcg agtggtgcat 120

gtaccactta tgtggggcac tagtgactcc atggaggtgc caccatgtga tgcgtgcttg 180

tggaaatatg tttctataag catgtaatgt ttcgtctgtg ttaacgtgaa aatggatatc 240

ggtacggaaa aaataaa 257

<210> 4424
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096h06b1

<400> 4424

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gctctattca ttctggcttc gttcaccgct cacggccacc caagcgccga accgggcact 120

gccgcgtttg gttcttactt caccactgtc attcgtgttc cccacggctg cactggctca 180

tctaccacaa aggttgacgt taagataagc gaggacatat ctcatgtcaa agcacacaga 240

gtacccggtt ggaagctgga tgtcgtctat cgagacaacg acaacgccac cgctctaaag 300

ttgggcgaaa acagaaccgt tgataccctg acctggacag cactaactga agccgactat 360

ctccccgata acatgttcga ggacttcggc gtcaatatga agcttccaca gccttctgca 420

atgaaaatcg tttaccttcc gaccactcaa acgtgtggaa acggaacgag cgcttgggta 480

ggaattcct 489

<210> 4425
<211> 210
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096h08b1

<400> 4425

gggccggtcc ggaatcccct tttcgaccaa cccactagac ttcgtttcat caagagaacc 60

cacgcctgag ggcaggggtg atttgaaagc atagctggtg taccacacca accaaagtga 120

gttcacgggc cgacaattga caacgacatg accgggaaaa cccatcggct accaaagtaa 180

aaggccttga cgaaaagaca actgtttgcc 210

<210> 4426
<211> 486
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096h10b1

<400> 4426

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ggatcccgcg cgctctcctc cctcccgcgc caccccgcca ccgccgcccc gtccctggcg 180

attggatccc ctcctggcct cagcaagggt ctgggacatg agccaacatc acacctcagc 240

ggcacacaat ttttaccggg ttgggtttct actgtagcat ccaatggatc tcccatgcag 300

aatacacagg tctcagagac atgcaagcca gttgctggaa cgggacactc tgatgcacta 360

aaagcgactg aaggagcctt ccctaaattc acggcattca gcccactaga agcagctgct 420

aaacctagaa gcagtccgtt gacaagtgaa agttctaaag tcaggcgatc agagacatta 480

acagga 486

<210> 4427
<211> 268
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316096h12b1

<400> 4427

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tcgtacacat tttatatcta ttacggactc catcaacaat tataaaccga tttcccccac 120

tcccgtctgt actagtacat ctttacccta tatctcaggc taacttctca ccaaacaata 180

cctgtcactc cctgcgacat atcctataga ctaattctct atctctaggc ctaaccacgt 240

tactgtacgc gttttatcaa cattccta 268

<210> 4428
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097a01b1

<400> 4428

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cccaggatga atttgaatgt cctgactcag aattctatga atttacagaa ataaggtcga 120

ttcagaagtt ctaacctggg cagatctggg ctctctatag tgatatggac aagttcccca 180

attactatgc catcataaag aaagtcgatc tcaagaataa taaagtacaa gtgaaatggc 240

cttgatctct gtcctcgggg agaggaagag aaaagattga ctggtaaaa 289

<210> 4429
<211> 285
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097a08b1

<400> 4429

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gatcaacccc aggcacccca tcatcaagga gctccgtgac aaggtcgccc aggacagcga 120

tagcgagggt ctgaagcaga cggcgaggct ggtgtaccag acggcgctga tggagagcgg 180

gttcaacctg ccggacccca aggactttgc ctcgagcatc taccggtcgg tgcagaagag 240

cttggacctg agccccgacg cggccgtgga ggtggaagag gaggt 285

<210> 4430
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097a09b1

<400> 4430

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gccccatggg agaatcagct gtggactgtg ccagccttgg atccatgcct gacattgagt 120

tcaccattag tggcaagaag tttgcgctga aaccagaaga gtatatcctg aaggttggcg 180

aaggagctgc tgcccagtgc atcagtggat tcacagccat ggacatcccg cctcctcgcg 240

gtcctctctg gatcctggga gacgttttca tgggccccta ccacaccgtc ttcgactacg 300

gcaagctgcg tgtcggattc gccaaggcgg cctgaaaggg tggtcgagcg agcgccccac 360

cgcggaggcg aacacttgcg ccgggagaga gcttagcttt tttactccga atttgaccgg 420

tgctgtgtgt gtatatatat gctacatgct tgttttcaaa gaccctgaca tgaccaaggg 480

tt 482

<210> 4431
<211> 216
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097a10b1

<400> 4431

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aaaggtctta ttgttgttgt atgatttgaa cgtgtgtcta tctcattaat ctatcgttga 120

acgatagtat gtatgtatac tggacgtgta aggagggcaa aagtgcctta agcgtcccat 180

gatttaatat tttaagttgt gagtttgtta ttgccc 216

<210> 4432
<211> 483
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097b01b1

<400> 4432

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tcggacgtgg agttcgtgtg ccatgacctc catggcaccc atggccgaca agacgggacc 180

ctcggcctcg gccatggccg cctgctcggg agatggggtc gccatgtttg acgccgccag 240

cgcctcatgg acctcagctc caggtccacc gccatcgaac tcaggtggat aagtggatgg 300

cacatgtgta tgttgctgtt gagggattat attcgacatt ttatttttat cccaacacta 360

gattgaagtg gtggttcaca aaggattctt agtggggcac aagtgtagat tgatacaaaa 420

gcatgctgaa tattttggtc cttcaggttc attttcacga tcatttttt agtgcaaaat 480

ttt 483

<210> 4433
<211> 264
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097b06b1

<400> 4433

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cagaggacct gacatccatt cttgagtcag ttggttgtga aattgacaat gagaagatgg 180

aactcatgct gtcccaagtg aagggcaagg acatcaccga gctcttggct gctggtaggc 240

agaagcttgc tgcggttcca tctg 264

<210> 4434
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097b08b1

<400> 4434

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg ggcccccctc 180

ctaaagaacc caaactaaac tccctttcca ccccactcca aaacctttta aaaggggccc 240

caaaattaaa ttccccgccc ctctttcaac ccaaccagaa cgggaaaacc ccgggcttac 300

cccacataaa acccccttaat cacaaccccc cctctcacag ttgcaaaaat attaaaaagg 360

cccccacctc ccccctttcc aaacatattt acccccctaaa agccaaaaga acccccccct 420

tcaaa 425

<210> 4435
<211> 64
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097b09b1

<400> 4435

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tgtc 64

<210> 4436

<211> 175
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097c02b1

<400> 4436

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ctttgatatt aagacagatg ttggtcgact gagaatctaa agatggtcaa cttgctattt 120

aaaaaaaaaa aaaataaaaa aaaataaaaa aaaaaaaaaa aaaaaaaata aatat 175

<210> 4437
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097c03b1

<400> 4437

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tcacgggcgt ccccgtgggc gcggcgcccg tcgcctggtc ctccggcctc tttgactgct 120

tcgacgactg cggcctctgc tgcgtgacct actggtgccc gtgcatcacg ttcggcaagg 180

tggcggagat cgtggaccgg gggtcgacgt cgtgcgggac gagcggcgcg ctctacgcgc 240

tcctgtgctt gctcacgggc tgccagtgga tctactcctg cacctaccgc tccaagatgc 300

gcgcccagta cgcgcttccg gacgggcccc tgttcgattg ctgtgtccac ttctgcttgc 360

gagccgtgcg ctcttgtcca gcagtacaag 390

<210> 4438
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097c05b1

<400> 4438

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agagggtcac gggaaccgtg acgctgtcca acactaccaa ggggttcggc cttcatctct 120

cctgactact gttgcgagga cctctttgtt cacc 154

<210> 4439
<211> 58
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097c07b1

<400> 4439

ctcactacat gctgtatttc atgctgagga ttaggcatta tagttatgat tatggcca 58

<210> 4440
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097d02b1

<400> 4440

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ctccggcgtg tgcgccaagc gcgtggtggt ggacgcccgc caccacatgc tcggccgcct 120

ggcctcgatc gtcgccaagg agctgctcaa cgggcagcgc gtggtggtgg tcccatgcga 180

ggagatctgc atgtccggcg gcctcgtccg ccagaagatg aagtacctcc gcttcctccg 240

caagaggatg aacaccaagc ccttccacgg tcccatccac ttccgcgccc cggtcaagat 300

cctctggcgc accatccgcg gtatgattcc gcacaagacc gcgaggggcg aggccgcgct 360

tgccaggctc aaggcgtacg agggcgtgcc gcctccgtac gacaggacca agcgcatggt 420

catccccgac gcgctcaagg ttctgag 447

<210> 4441
<211> 440
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316097d03b1

<400> 4441

cggacgcgtg ggcggacgcg tgggcggacg cgtgggttcg gctccacttc catgactgct 60

tcgtacaggg atgcgacgcg tccgtgcttc tggacgcggc gccgggcagc aaggcggaga 120

aggacgcgct ggcgaacaag agcctgcgcg ggttcgaggt gatcgacaag atcaaggaca 180

ccctcgaggc tcagtgcccc ggcgtcgtca cctgcgccga catcctcgcg ctggcggcca 240

gggacgccgt gctcatggtc gggggccccc actacgacgt gcctcagggc cggcgcgacg 300

ggagacgctc cgtcgacacc gacacgctga ccgggctccc gtcgccgttc ctcaacgcct 360

aggngctaat caccctcttt ggcacccacg gcttcaacgt gcaggacatg gtggcgcttt 420

ccggcgggca cactctgggc 440

<210> 4442
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097d04b1

<400> 4442

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tatggtggcc cctgcagcgg cggcgaaggc caagcagggg cacgtgcggg agtggtacca 120

cagcgacagc gacagcgacg tgttcgccgt gccggagatc acgtcgccgc cggccaagcg 180

ggcgcggccg tcgtcgttct ggtgcctgtg agccagctag cgcggcggca aaccacccac 240

gccgtcgcag caaccgggcg agctacgtac ctgtggctcg atcgatccat cactagtgta 300

atctttgctc gttccccgca aaaaaaataa ataaataaaa aaatgctcgt tgtagcttgg 360

tgtgaaaaaa aaaaaaattt aaatttc 387

<210> 4443
<211> 505
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097d09b1

<400> 4443

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cagatacaga gattcagtga gggcaatcag gccagggctg cccctcttcc tctacaacta 120

ctccacccac cagctccacg gcatcttcga agctgcgagc tttggcggag cgaacatcga 180

cccggcggcg tgggaggaca agaagtgcaa cggcgagtcc cgcttccctg cacaggtgag 240

ggtggccaca aggaagatct gcgacccgct ggaggaggac gccttccgcc cgatcctgca 300

ccactacgac gggcccaagt tccggctgga gctcagcatc accgaggccc tctcccttct 360

cgatatattt gaagacaagg acgaggcctg atcgaggctg catgcctact gctgatcagg 420

gagggactgt tgaggaagga acaacgcaat aagatcgatc ggagcatata tatatacata 480

catacatacg attaatatca ttatc 505

<210> 4444
<211> 496
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097d12b1

<400> 4444

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ggggacggac cccctgtcgc agatgttcct cgagccgccc tacttcccca gcctcgacgc 180

cgtcaagacg ttcttggccg actactgggt tcagcacatg gccgccgcct ctgttccgtc 240

agggcgcagc tgaaagtttg gaacggccaa ataccgccgc tagatgggtt gccacttgcc 300

acggcgacga cccgtgattt tgctggctag aagttacagt acctatgatc cccagcctgc 360

aatcatatag tgattcattt cagtagcggt agacgagtac atatactcag acatgtgtgt 420

gttgtgacta gtggtgccat ctgttctagt gttctattac agagtttttc atcggagatc 480

catttcattt tttttc 496

<210> 4445
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097e08b1

<400> 4445

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gcgcctacac caccgcctcc ggctccaact tcaacggctt ctccacctcg gacatcaaga 120

cctacttggc ctactccagc tgatatggaa ctagtcatgt ggccacgtac tacgtagcac 180

acgccattcg atttgttttc gcagtacaca aaatgaagag ctgtaattaa gctcgtacaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa 300

aaaaaaaaat aaaaaaaaaa aatcttttat aaaacataaa t 341

<210> 4446
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097e12b1

<400> 4446

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ggtatggaag ttcctggtat acacgaagcg acatacaatt ccatcatgaa gtgtgatgtt 120

gatatcagaa aggatctgta tggtaatgtt gttctcagtg gaggttctac catgtttcct 180

ggaattgctg atcgcatgag caaggagatc acggcccttg ctcctagcag tatgaaggtt 240

aaagttattg caccacctga aaggaaatac agtgtctgga tcggtggctc tattttggcc 300

tctcttagca ctttccagca gatgtggatc tccaaggcag agtacgacga gtctggtccc 360

ggcattgccc acatgaagtg cttctgaaga gtcggggaag gtcgtttaca aaggggactt 420

<210> 4447
<211> 223
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097f01b1

<400> 4447

gctttttcca gactagcttc tacttcggct acacgttgat gttctgtctg gggctaggca 60

tactttgtgg tgctatcggc tatctggggt caactctgtt tgtcaggaga atctacagaa 120

acatcaaatg cgactaaact actactccga ttctgtaggc tattagcact tagcagatca 180

tgtgttgttg agtaacgctt ctaagattct aattaacttt tgg 223

<210> 4448
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097f04b1

<400> 4448

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aacaagacgc tgctcaagag cgacgccctc tacacctaca tcctcgacac caccgtcttc 120

ccccgtgagc acgagtgcat gcgcgacctg cgcctcatca ccgacaagca cccatggggc 180

tacatgcagt cgtcgtcgga cgaggcacag ctgctgggga tgctgatcaa gatggcgggc 240

gccaagaaga cgatcgaggt gggcgtgttc acgggctact cgctgctggc caccgcgctg 300

gcgctcccgg aggacggcaa ggtggtggcc atcgacaccg accgcgagtg ctacgaggtg 360

ggccgccccc tcatcgagaa ggccggcatg gcgcacaagg tggacttccg cgagggcacc 420

ggcctggcgc gcctggacga gctgctcgtc caggacc 457

<210> 4449
<211> 56
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097f06b1

<400> 4449

tcgctttcgc gttcgcccac gcgtccgtcc acgcgtgcgc tagttctaga tcgcga 56

<210> 4450
<211> 461
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097f07b1

<400> 4450

tttggttgtt aagatccaag aagagcttga cattgatgtg cttgtgcacg gagagccaga 60

gaggaacgat atggttgagt acttcggtga gcagctctct ggtttcacat tcactgccaa 120

tggctgggtg caatcttatg gatcaaggtg tgtcaagcca ccgattatct acggtcatgt 180

gagccgcccc aaccccatga ctgtgttctg gtccaagatg gcacagagca tgactgctcg 240

cccaatgaag ggaatgttga caggccctgt cacaatcctt aactggtctt ttgttagaaa 300

tgaccaaccg aggtttgaga cttgctacca gattgctctt gcaatcaaga aggaggtcga 360

ggaccttgag gctggtggta ttcaggtcat ccaaattgac gaggctgctt tgagagaggg 420

tctgccactc cgcaagtctg agcatgcttt ctacttggac t 461

<210> 4451
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097f08b1

<400> 4451

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ccgatcaaga atttctttta cttcgacgac gctgatggta aaggggccat ggaggacatc 120

cccccaactc ctgaagactg aatcacgtga tacgtactcc cttcgttcca aaatagatga 180

cctaacttta ttttagatcg gtgggagtaa ctcttcattc gacatggctc gctgataact 240

tgtcccaatc atttgaactg atcactgtta gaac 274

<210> 4452
<211> 51
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097f11b1

<400> 4452

gtaaagtaag ttcttcattg actgctaatg cacacgctga agactgtagt c 51

<210> 4453
<211> 313
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097g01b1

<400> 4453

acttttgcga catcagcaag tgccagttct acctcgacat gctgaacgag tgccgccgtg 60

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ggtcggaacc tgttttcagt catgatgatg atgatatata tctcctaaat aattcattgg 180

caatattatg aacctatgcc acagcttatg tctattacct accctagttt gtggtctctg 240

ttgtcctggg agtatttcct tgtattgatg ttggaattac cttcatggca gtgggtttat 300

aaatatggag ttt 313

<210> 4454
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097g03b1

<400> 4454

ccctcgcgtc cgccagacgg caggtaggga gaagggcatc gacagcctga agaactacct 60

gcaagtcaag gcggtcgtca ccgcgcttaa gaaccccgcg tggttgtgag catagcgcac 120

tatggtcctc ttgacactcc ggagaacgtg aagactcgcg ataattgaat gaggagagga 180

agaagaagat gatgatgatg atgacaccaa cgaggatcac taataagccc ctgccttcat 240

gggcagccag ccaccgtctc taataaatat catatgtgat ttggtttcct ttgtcaaccg 300

cggcaagaca tatatgttgt agcaacatta tgtttattat cgcttgttgg agaagtctct 360

ggttgcagta aatctgtttt ttttttatca gttgttgaag ctaatggtgt tcactaccct 420

agttaattca tgccc 435

<210> 4455
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097g07b1

<400> 4455

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tcatgggacc cccttacagc agcgctgctg gcagggactg cgcgtactac agcgagaccc 120

ccttctcaaa cacagctggt gtggctgacg tgcggtactc ctggctcaag gagatcccca 180

ataccttccg gatgaagggc gtaacgatgc cgcgggactt cgtcgtctag gaacctgcat 240

gctgaagggc gctcccgccg tctagcttct ttgtgtagat aacagctgta acctgcgaaa 300

ggcaggtagt cagtcagttg tcagtcggtc caacctagct ctcaggctag caaactcttt 360

ttttttacc cttacccgtt cgtcggggtt gaaactatct catgtcgcct gtc 413

<210> 4456
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097h01b1

<400> 4456

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tcgcgttcct caccccttgac gccgaagcca agtagtacgt gcgtgtgagt gtgatcatac 120

atgcatacgt acgtgcatgt gtttatgttt gtgtggtttg aatatttata cgtctacaaa 180

tgttacgtac gtacgtaaat aagcacacat tccggttaca tgtatccatg cggctctgtg 240

cagcgtgtaa atgtaatcat atatgttcta cgtccatgca aacatcttta ctttt 295

<210> 4457
<211> 491
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097h02b1

<400> 4457

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ctacatcagt gttccgcagt gcaggcattg catctgatgt tgcagcgagt gctcttgttg 120

gtgctgccaa tgtttttggc accatgattg catcttcact gatggacaag caagggagga 180

agagccttct cataacaagc ttttctggaa tggcggcgtc gatgttactc ttgtcattgt 240

ccttcacctg gaaggctttg gcaccttatt ctggcactct tgctgttgtt ggcactgtcc 300

tgtatgtgct gtcattcgct cttggagctg gccctgttcc agctttgctc cttcctgaaa 360

tatttgcctc cagaataagg gccaaggctg tagcattatc aatgggcatg cactggtgtat 420

ccaacttttt catcggcctg tactttctga gcgttgtaac aagtttggaa tcagcaccgc 480

ggtcttggga t 491

<210> 4458
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097h03b1

<400> 4458

ccctcgcgtc cggcagcata cacttgatct ctcttcctat atccaattaa tcttagtcaa 60

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tgtggcttgt gccttgctgc tcctcgctgc ggggtgccag gccagccctt tctggccact 180

ggagatcggc tactaccacg acaagtgccc ccaagcggag gccgtcgtca agggcgtcat 240

ggagaaggcc atctcccaga accccggcaa tggcgctgcc atgatccgca tgctcttcca 300

tgactgtttc gtcgagggct gtgatgcttc cgtcctcctg gacccgactc cgttcagccc 360

gacgccggag aaactcagcc cgccgaacga cccttccctg cgcggcttcg agctgattga 420

cgccatcaag gacgccctcg aggcgggctg cccggccgtc gt 462

<210> 4459
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097h05b1

<400> 4459

aaaaataaaa aaaatagata aaaaaaaaaa aaataagaaa agttagaaga aaaagtaaaa 60

aaagaaatga aaaatgaaat agaaataaga aaaaaattta aaaaataaga aaaggtgaaa 120

agaaaaagaa aaaattgaaa gagaaaaatt aagataaaaa aaatagaaaa tgaaagtaaa 180

aaaaaaaaaa ataaaaaaga aaaataaaaa agataaaaaa aaaaaaaaaa aaaaaattaa 240

aaaaaaataa ataaaaaata taaaatgaaa gataaaaaat aaatataaaa aaaaaaatag 300

aaaaaaataa taataataaa aagaataata taaaaaaaaa aatattaaaa taaaaaaaaa 360

atataaaaat aagtaaaaag agataaataa taaaaatt 398

<210> 4460
<211> 483
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097h09b1

<400> 4460

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cttgaatcac tgacagactg ctgtggtgga gacggaaaga cggcgagggc catcaccaag 120

gcccacccac acgtcaagtg caccgtgctg gatctcccca aggtgatcga aaaaactcca 180

tccgactgcg tagtcaacta tgttgccggt gacctttttcc acaccgtccc aaaggcccag 240

gcagtgatgc tcaagcttgt gctgcaccac tggagtgacg acgattgtgt gaagatccta 300

acccagtgta agaatgccat tccttcccgt gaggaaggag ggaaggctga ttgtcattga 360

cattgtggtt gaaccatcac taggacctgt catgtctgag gcccagactc tcatcgactt 420

gctcatgctt gtctcaccag aggccgtcca cgtagcgaaa atgactggcg tgatattttc 480

atg 483

<210> 4461
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097h10b1

<400> 4461

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gcgtcaagaa gccccaccgc ttccgccccg gcaccgtcgc gctccgcgag atccgcaagt 180

accagaagag caccgagctg ctcatccgca agctcccctt ccagcgcctc gtccgcgaga 240

tcgcccagga cttcaagacc gacctccgct tccagtcctc cgccgtctcc gccctgcagg 300

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ccaagcgcgt caccatcatg cccaaggaca tccagctcgc ccg 403

<210> 4462
<211> 506
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316097h12b1

<400> 4462

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accatcgacc tcgccaagga cccctacttc atgcgaaacc atctcggcag ctatgagtgc 180

aagctctgcc tgacgctcca caacaacgag gggaactacc tcgcgcacac gcagggggaag 240

cggcaccaga ccaacctcgc caagcgtgcc gcccgcgagg ccaaggacgc gcccgcgcag 300

ccccagccaa acaagcgcaa gctcgcgccc cgcaaatctg ttaagattgg cagacctgga 360

tatacagtaa ctaaacagta tgatcccgac acgaagcaac actcatttct ctttgagatt 420

gagtatcctg aaatcgaaga taatagcaag cccaggcacc gtttcatggc atcatatgaa 480

cagaaaatcc aatcttggga taagag 506

<210> 4463
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a01b1

<400> 4463

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ccctcgccat gggcaagatt aagatcggaa tcaacggttt cggaaggatc gggaggctcg 120

tcgccagggt cgccctccag agcgacgatg tcgagctcgt cgccgtcaac gacccctta 180

tcaccaccga gtacatgacc tacatgttca agtacgacac cgttcacggc cactggaagc 240

acagtgacat caagctcaag gacgacaaga cgctgctctt tggcgagaag ccagttaccg 300

tcttcggcgt caggaaccct gaggagatcc cgtggggtga ggctggtgcc gattacgttg 360

tggagtccac cggtgtcttc actgacaagg acaaggccgc tgctcacttg aa 412

<210> 4464
<211> 508
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a03b1

<400> 4464

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cacggcctct cacaccaccg cggcgcgttc tccggtccgg gcgaggcgcg tgtccatccc 180

gccgtcgacg tcgtactcac cgagcttgcc cgcggagaag agcaagagcc cagggaagct 240

gagctggagg cggtcgcgga gcctgacccc gactcacgcc cggacaccga cgccgcagag 300

aagctgtttc atggcgagga ggaggaagag gcggcgaatg cgtggaaggt gaagatgcta 360

ggaggttccg ccacggcatc cgattgcacc accgccacca tcttcgccac caccaggagc 420

aggacgggga ggaacacgac taccgccagc aggacaaggt tgattgcgcg agcatgagcc 480

tgttcggacg ctttcaccac cgccacca 508

<210> 4465
<211> 173
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a05b1

<400> 4465

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acatctctaa ctacttttca gtgaatattg gcgacctggt atttaccggt acgacaaaaa 120

gagaacaaga aaacacggta aaaaaagaaa agtgacaata tattacacac acc 173

<210> 4466
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a09b1

<400> 4466

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cggccaagtg aagtcctttt ctttttcttg tgttgtgtta tgagtcatgt gggaggttat 120

tgtcgcgtag ttgaataaaa agaaagagtc ggaaaagaga tacatatagg gttaatacgt 180

cgcaaaccat tatctcttcg gtgaattgag catagcacag ttttttaaaa aaaaaaaaaa 240

ataaataata aactaaaaat ataaaaaaat attaaacaat aag 283

<210> 4467
<211> 512
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a10b1

<400> 4467

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tgctggctag tcatcggcgg caaggtgtac aatgtgacca agtttctcga tgaccaccct 180

ggaggcgacg acgtcttgct gtcttcaaca gccaaggatg cgaccgacga cttcgaggac 240

gtggggcaca gcacgaccgc ccgggcgatg atggacgagt cctacgtggg cgagatcgac 300

gcgaccacga tacccaccaa ggtcaagtac acgccgtcca agcagccgca ctacaaccag 360

gacaagaccc ccgagttcgt catcaagatc ctccagatct tggtcccccc cgcgatactg 420

ggcctggccg tcgccgtacg gatctacacc aaggcggagt ctgtctagca ccgtccgctt 480

ataccagtca gtcagtcagt cattcggaag tg 512

<210> 4468
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098a11b1

<400> 4468

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tgccgcgccc ctgcaaggga ggcacgggac tcggtaaggg cggcaccaag ctccaccgga 120

aggtgctccg tgacaacatc cagggcatca ccaagccggc tatccgtcgt ctggcgctgc 180

gtggcggacc gaatcgcatc tggggtctca tctacgagga gacccgcaga gctctcacta 240

tctttctcaa gaacgacata cgagactgcg taacctacac ctagcacgcg cgccgcaaga 300

ccgttcacaa catggacgtt tggtacgccc tcaagcgcca gggactcacc ctctacggat 360

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<210> 4469
<211> 472
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098b02b1

<400> 4469

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taggactcca gtggcatttt tggcaaaatt gtttagatat tggaggggt caattgaagt 180

gactattaaa gttgtgaaga cagaatttca tactggtaga cttatttttgt ccttttcgcc 240

ccaattagct cagactacta ttacaaattc taatacaaac tatgttcatc gtgagatagt 300

cgatctacgt gatggctctg agtttgtgat taaagtgcct tattgctaca actctatgta 360

catggatact gaccaagctc aaaatgattt attcatgatg atgcaggtca atgtattaaa 420

tgaattggta gctccagaca cttgcgcaca aagcgtagaa attttgtatg ag 472

<210> 4470
<211> 476
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098b05b1

<400> 4470

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caggctcgtc agctgggcac cgcaggtgga ggtgctcgcc caccctgcgg taggcgcctt 180

catcacgcac agcggctgga actccacggt ggaagccgtg tcggagggcg tgccgatgat 240

atgcctcccg ttgcacggag accagttcag caacgccagg tacgtgtgcg atgtctggaa 300

ggtgggagct ggagatcgag gcgtcgtcgg cggctgggca gaacctggag agagggaaga 360

tcaaggctgc catcgacaag attgtgcacg acatagggac tagagagagg atggttgccc 420

tcaaattagc tgcagatgaa gcagctaacc tccaaactga ggtgaaagct ttgggt 476

<210> 4471
<211> 266
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098b06b1

<400> 4471

aggcaccaac atcccctggc cgacccaccc aaacggatcg tccaccccta ccccgcccga 60

aggggattt ttaaacctat cggcccaaac caactcaccg cagatatctg cccgctcccc 120

ctccggaaca ccagcccctc tgcacaggac ctgacatcca tgaggactca gccggaggtg 180

aaacggacaa cgagaacagg gaactgaggc agacccaagc caagggcaag gacctcaccg 240

agccctagga tgctggtacg gagaag 266

<210> 4472
<211> 57
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098b07b1

<400> 4472

tcgtttacgc gtccgcccac gcgtccgccc acgcgggcga ctagttctag atcgcga 57

<210> 4473
<211> 204
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098b09b1

<400> 4473

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aaaaaaaaaa aagagcgact aatataaaaa aaaacaaaca tcaactacct cattataaaa 120

aaaaaaaaac aaaacaaaaa tgtaaaaaaa caaaaacaaa aaagaacaaa ttaagcaaaa 180

taaaaaaaaa aaaaaagacg ataa 204

<210> 4474
<211> 504
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098c02b1

<400> 4474

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accaagtttt tcatgttgaa gcccgtggag atgtattcaa gatctctgct gtatggatgc 120

gtatggacaa aggttctgca tatccttgtg tgaaaattgt ctgcagcagc gcgaaggtgg 180

tgctgaagaa agcgtagcgt gttagttcca agtgaagaaa atgtggcgca acacgaagtg 240

ctctgtgcca tggtaaataa ttgttcagtt ctgtatttgg agcagggtgg gggttgattc 300

tgagaatcag aattcactac aaagatagga tcttgatttt tgttggttta aaacagaaaa 360

tggaaaggaa aaaaagggaa ccaaaagttt tttatgttcg tgaaaaatgc aggctttttat 420

ttagcacatg cagtcttgta tttcatgtat gccgatgtta cttggcatca caatctctat 480

gataccattt aatactttag ttat 504

<210> 4475
<211> 517
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098c04b1

<400> 4475

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gatatgtgca ggcgcggcag cggaaattac agcaggtgcc ggcaccaccg ctagtgccgt 180

tgccaaatcc taacccgcag ccagacccaa acccacaacc tttgcctatg ccagacccaa 240

atccacagcc attaccgcag cctttaccgc aaccactgcc aggcccaaac ccgtagccac 300

aaccattacc ttagcctctg ccgcgcccaa acctgcagcc acaacctctg ccacaaccgt 360

tgcctgacgc aaacccacag ccaccgccat taccacaacc tctgccacga ccactaccgg 420

ggccaaacgc acagcctcta ccacaaccac tgccaggccc aaacccaccg tcactgcctc 480

aaccagacgt ccaaggctca tatccgcagg tagaacc 517

<210> 4476
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098c12b1

<400> 4476

taataccaaa aaaaacaaaa aaagagaaaa gggggattat taaaagaaac gctggggtac 60

aaacaaaaaa caaaaaaaaa gaaaaaaagc gggcagccgg ctataatggc cctcctgtgc 120

gcccgggtcc ctgctgacgg cgtgcctgtc gtctgaggcc ccttgtttgc ccgcccgcgc 180

tctgtgtgta cacctgtgtg ccggggaaac cccttgcctg gcccaagaaa agctggttcc 240

ctacttgtcg cctttctgca ggtggctctt gggcacgcgg gccctacggt tgccctttcc 300

cacctgttgc c 311

<210> 4477
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098d02b1

<400> 4477

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gagtcagtgt acagccggcc tatgagatcc tttttgctga atccacgcag ataagcacaa 120

tggcggcgcc ggcgatgttt gctaaggcga ccaggaaggc ctacgtggtc ggtcggccgc 180

ggcggttgct gcggctggcg gtgctctggg cgcggaaggt gagcgcggcg cagagcctcc 240

gcctgctcaa gacgctgcag cacagccagg tcgtcggcct cagactgggt cacggcggcc 300

ggggcaacga ccggctgcac tacggagagc gagagctctc catcgacgag acgccggcgt 360

ttcggttccg aacccccctcc gcgcgcgtgc tccggttcat accatgcatg gagcgctccg 420

tcctcgacac ccc 433

<210> 4478
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098d04b1

<400> 4478

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ctttttgtac agctagagaa gcaaaacaac ccagccagcc atagctcgta gtggtggtgt 120

gttgtgggga gagcgactcg cctgacctga cctgttgcgc ctggtggtgt gctctgaagt 180

tgtaacgaca ccaccgcccg aaatcatatg gcaaagttgt tgccttgcta gttggcattc 240

atcccccaga ttaccggccc tttatgccct gcaaaatggt tctccttagt tttttcctgg 300

gttgtatctt gt 312

<210> 4479
<211> 416
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316098d06b1

<400> 4479

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gatgtcgccg ttcgtggcgc gcgcgctgct gtgcctggag gaggccggcg tcgagtacga 120

gctcgtcccc atgagccgcg aggccggcga ccaccgccag ccggacttcc tcgcccgaaa 180

ccccttcggc caggtccccg ttctcgagga cggcgacctc accatcttcg aatcgcgcgc 240

cgtcgcgagg cacgtgctgc gcaagcacaa gccggaattg ctgggctccg gctcgccgga 300

gtcggcggcg atggtggatg tgtggttgga ggcgngaggc ccaccagcac cagaccccgg 360

cgggcaccat cgtgatgcag tgcattctta ccccgtttct tggttgccag cgcgac 416

<210> 4480
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098d09b1

<400> 4480

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ctgagatgat ttactgaaac agcctgctcc atcgtcagac ttcatcctcg agtaatttgg 180

aattcggtat caaacgtgtg tgtcttggat gcacaatctg ctttaatggc tttgacaatc 240

aatt 244

<210> 4481
<211> 498
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098d10b1

<400> 4481

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ccgtctcact cgcaagtcac agcatccccc gtctgctatc tcttgggaga gttgggagcg 120

gaggagcgac gcaggccgac gcagcggcgc aggcgagcaa aggccgcgag gcagcaaggc 180

gccctccggc tgaagagcag cgattcagac agcgacatcg tgcctcttgt cgactatctc 240

aacacccagt actatggggt catcggcctc ggcacgccgc cgcagaattt cacggtgata 300

ttcgacaccg ggagctccaa cctgtgggtt ccctcgtcga aatgctattt ctcgatagca 360

tgctacctcc accccaaata caagtcgagc aagtcaagca cttacaaagc agatggtgag 420

atttgcaaaa tcacatatgg ctctggcgca atctctggat ttttcagcaa tgataatgtg 480

ttggctgggg accttgtt 498

<210> 4482
<211> 212
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098d11b1

<400> 4482

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tgggaatgca actggggtgt tgtcctggga tagccccctt acataataat tgtaatcccc 120

tctgtgctgt tcatctacac ttgttcttcc tgggcgtgcc agggacgtaa aatttctttt 180

ggttatatga tgcccatagt tttcacatgc ct 212

<210> 4483
<211> 256
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098d12b1

<400> 4483

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ggtctatgtg cagcctgcag ctcaaggaat aggtcgagtg gcactcgcac ttgctcgccg 120

gtgctgattt ttctgaactg taatgcgtta tgtatgaaca acttctcgtc ttttgtcttt 180

gtaatatgta ccggtgtaca tttgtttgct tcagtagacg tatacacaaa cctggaagca 240

ggcagaggtt ttcttt 256

<210> 4484
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098e01b1

<400> 4484

tttgtttgta acctttctcc cttggttttg gaggtgcacg caccaactcg atgcaggggg 60

acgccatgga gcaagtcgag ttcgtggaac aagtcatgga cgatgccatg gaagatcatg 120

attcagagag tactacgacg acatcccgca atctaggatt cgaagatagc agtcgtgcga 180

gataggagtt atcctggtca gctgttcttg tgggaatgga gtcccatcaa cgttggagat 240

ccacgagtca ctttcatcat ccaccactag agatacttgt tatattcatt tgacctttgt 300

ggtcttgtac tcaatttctt gtaatttgac ccataggccg tgcgcccgtg gctgacactt 360

gagttgtccc attcgcaagt gtgcgatgga agactccgct agcttataaa ggaagccttg 420

cccaacttag caaa 434

<210> 4485
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098e08b1

<400> 4485

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gcagcccagg cagctcaacg tccgccgcca cgatgtggag ctccggctcc gacctcgacg 120

agtccgcctc gacggcgacg gcggccaccg catgctccct gcagccgcag acgccgcctc 180

cgcctcgccg ccgccgcagc cgcaaccgcc gccgcgccca gcgccgggtc aagaacggcc 240

ccgaggtgga ggagtctgag gcggaggcgg agcaggtgtg gtgcggctcg cactggcgagg 300

cg 302

<210> 4486
<211> 503
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098e10b1

<400> 4486

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gcgaggaggg accatggcgt cgttgccaga ggaggaggag gccttcgagc acacgctgct 120

ggtggtgcgc gaggtgtcgg tgttcaagat cccgccgcgc accaccagcg gcggctacaa 180

gtgcggcgag tggctgcaga cggacaagat ctggacgggc cgcctccgcg tggtgtcgtg 240

cggcgaccgc tgcgagatcc ggctcgagga cccgggctcc ggggacctct tcgccgcctg 300

cttcgtgctg cccggccaga gggacagcgc cgtcgagacc gtgctcgact cgtcgcgcta 360

cttcgtgctc cgcatcgagg acggcagggg gaagcatgcc ttcgtcggcc tgtgcttcgg 420

cgagcgcaat gaggccttcg acttcaacgt ggccctgtcg gatcacgaga cgtatgtcaa 480

gagggagcaa gatcaggaga ccg 503

<210> 4487
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098f02b1

<400> 4487

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tacagccatg tcaacaacga agaacaagac tgatagcatg acccacaaga ctaccatgag 180

cactgagatg cgcaagatgg ccaaggcgat caccaacgat gtcaagaaca actactgcag 240

gacctactag 250

<210> 4488
<211> 511
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098f04b1

<400> 4488

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tcagcagcat gggttttaca aagcaaatca aatgactcgg tgcagtatat gtcatggcag 120

gggtttgctt gctcaccaag atggatctga ttcggtatgt gggatgtgca atggtcaagg 180

aatgttgccc tgcatagcat gtgcatcccg gggcctagtg acatgccaga catgtaatgg 240

ctgcggttcc cttcttgcac aaagcactgc tcatgttcga tggaagacgc ttacagcaag 300

gaaagttagt gcaacaacag gagctgcttc tgtccctgac gaagttttcc acagagcgca 360

aggggtgcaa ctatgcaaca tacaggctta ccaatgcact cctgctttct ttgccgattc 420

atacccactc aaccagttct cgtcggagat tgttgctagc cggctgccag ttccaccatc 480

tgcaagagtg atttcggaga ggcacatcat c 511

<210> 4489
<211> 505
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098f05b1

<400> 4489

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ttgcaggtcg agcaacttaa aagtgaaagt gcaaccctct tcaagcaact gacagaggca 120

aatcagcagt tcaccaccgc ggtcactgac aacaggatcc tcaaatcaga tgtagagacc 180

ttaagaatca aggtaaaaat ggcagaagac atggtggcta gaggcgcagt gtcatgcggc 240

ctaggacagc agctcggatt ggcaccattt ctgaactcca ggaagatgtg acaaagcctt 300

ggtgagcgtt ctcacaggca cagggttgaa cttgaaaggg aaccatgcac tcttcagagg 360

tttctagctc tagctcttca agttcagaca tcggcggtac gaagcactgc aagtctagag 420

tgctcgaata accggatgcc cgcttgccca gcgaggcggc cagatgtgtg gatgccgtgt 480

ggcccggaga ttcacaccaa agcag 505

<210> 4490

<211> 508
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316098f10b1

<400> 4490

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ccgtggtggc tgacgtctcg gcgcagaaca ccccgcagga cttcgtcaac ctgcacaacc 120

gcgcccgcgc cgtggacggt gtcggcccgg tggcgtggga caacaacgtg gccaggtttg 180

cgcaggactg ggcggcgcag cgcgccggcg attgccggct ccagcactcc ggcgggccgt 240

tcggcgagaa catcttctgg ggttccgggc agtcgtggac ggccgccgac gcggtgaagc 300

tgtgggtgga cgagaagcag aactaccatc ttgacagcaa cacctgcgac gccggcaagg 360

tgtgcgggca ctacacgcag gtggtgtggc gcaagtcgac ccgcatcggc tgcgcgcgcg 420

tggtctgcgc cgggaaccgg ggcgtcttca tcacctgcaa ctacaaccnc ccgggcaact 480

tcaacggcga gcgcccgttc gcgttcct 508

<210> 4491
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098g03b1

<400> 4491

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gcggctgagc gcggcggcgc gcctccgcgg cgggcacggc gacggcggtg gccgctggac 120

gacgcccggc cacgaggtgc ggcccaaggg gtacccgatg aaccgcacgc cgccgccgcc 180

gggcgagtcg cgcaagtggg aggactggga gctcccctgc tacgtcacct ccttcctcac 240

cgtcgtcatc ctcggcgtcg ggctcaacgc caagcccgac ctcaccctcg agacctgggc 300

gcaccacaag gcgctcgagc gcctccagca gcaggagctc gccgccgcgt tcgccttcga 360

cgacgccctg gcagagtgat ccgcgcgcgg gcgccccagg tcttcctcga aacctaggtt 420

gcttct 426

<210> 4492
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098g04b1

<400> 4492

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gtttccacga tgaaactgat cgctgcctac ctcctcgcct atgttggtgg gaactcttcc 120

caagtgccgc tgatgtcaag aacatcctgg actcagttgg tgctgaggct gatgaagaaa 180

agcttgagtt gcttcctgct gaactgaaag gcaaggacat cacagaagtg attgcatctg 240

gaagggagaa gtttgccgct gtgccttcag gtgggaggtg ccattgctgt gggagctcca 300

gttgctgcat ttgacgagcg cgcggcacct gctgct 336

<210> 4493
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098g07b1

<400> 4493

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cgtggcgagc catgatggtg gtcaatgttt caatgggcac acagaagcat agaagctatt 120

tgcaattttt gtgtcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaa 226

<210> 4494
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098g08b1

<400> 4494

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acaagatgga cggcggcagg cggcggcagc aggcggcgcg cgcctcgtgg atcgtggacg 180

acgccaccgg gctggcggtg gcggaggtga agaggaagct gacggcgact ggggtgtccc 240

tgggcgagga cgtgctgacg ctggtggtgg agcccaacgt ggaccactcg ctcatcatgg 300

ggctccttgt ggtgcatggt cttattaacc acttcatgtg agcattgcat ttgtcgtgca 360

gggacagggt gtaatttttct tgttagatgc atgcttagat gcatttatcc t 411

<210> 4495
<211> 145
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098g11b1

<400> 4495

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ctatcggcag aactaaggtg atggttattc tgctgtttgt tgttgatctg taactttgta 120

agaccatcaa gtctgggatt tgagg 145

<210> 4496
<211> 489
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098g12b1

<400> 4496

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ccacagacat gtgaggaagg cagtagcgaa gcagctaaag gaattcagga aacactatga 120

aggctatgta ccattggact acaaggttta cttgaagaaa atgaaaagat ctgggaatg 180

gggagatcat gtgaccttac aagcggctgc agaccggttt ggtgccaaaa tctgcttgct 240

gacatcgttt agagacacat gcctgatcga gatagtcccc agggatgccg ctcctacaag 300

agctaaatac ttggtgctca tcgaaccccg tcaccttctg cagagctttg gctaagtttc 360

tggtgtgaag tacactacaa ttccttgtat gccaatgaag atcttccgac tcgcaagacc 420

aaaaagaagc actggctgtt ctaggtaggg ttcgccggtc gttggattca ccactccccc 480

ctgattctt 489

<210> 4497
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098h02b1

<400> 4497

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tcacctgtaa acgtggcaga taaaccacac cgaagcacag aggaaggatc agattctgaa 120

tctgacgatg gcttgccccc tctggaagag aacatgaacc acttggacct cagcgagggc 180

gaagaaagcg aagaggaaag tgaaactgaa aacgaaggga ttaccgacgc aaaatgatgg 240

ttgtttgtct gatcgaaata agatccaggt ctcttgaggt ttttatcgtg gatctgaaaa 300

caatctatct ctgtacactt gtattgcttg cttgcgtcgt gtaccagtca tatgtatttt 360

tcttttgagg gattcgtgta tcagatcagt atatgtaagt gtagactgta aacagggtca 420

gtctctgaga acaccagtgc ttttatttag actaatac 458

<210> 4498
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098h06b1

<400> 4498

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gagatggacc ccgactcagt ggcgaaggcg ttcgtcgagc actactaccg cacgttcgac 120

accaaccggg cggcgctggt ggggctgtac caggagggct ccatgctctc cttcgagggc 180

gagaagttcc agggagccgc cgccatcgcc accaagctca cctccctccc cttcaccaag 240

tgcgcccaca ccgtcgtcac tgtcgactgc cagcccgccg gccccacggg cggcatgctc 300

gtcttcgtct ccggatccct ccaagtcgac ggcgagcacc acatcaagtt ctcccagatg 360

ttccacttga tgccaatcgg accagggaac ttctatgtgc acaacgacat gttccgcctg 420

aactacggct aagaatctta ccaaaggtcg tgcttcccca tggaagacag aatgttcttg 480

caaacaaaca 490

<210> 4499
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<213> Triticum aestivum

<223> Clone ID: uC-tsro9316098h12b1

<400> 4499

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gcttgatttg taacatgcaa atagtcgctt cggtcgaaga ggttaggatt atatatttct 180

gtgtctgcct catgcttgcc agcttttatc tacattgaga acgagttacc tatctgcgtc 240

tgggacaaaa tgtcaatgat ttagcagcag attatgtact atgaattgga actccatagt 300

ggtattctca tcagcttgaa t 321

<210> 4500
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099a01b1

<400> 4500

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ggatcaacgt gaatcgtcga taaccaacat tccgcgcatg tggctcaatg gaggtactgg 180

gacacccctc aagcactgga agacaagttc ggcggattct taaataggca gattgtagat 240

gattacaaac aatttcgccg aggtgtgctt taagaacttc tgcgacaggg tgaagaacag 300

ggtcaccttt aacgagccac atacatattg tggtttctcc tacggagagg ggattcatgc 360

tcctgggagg tgctcgccgg ggatggattg tgccgtccca aaggagactc gttcgagagc 420

catacactgt tgggcaccaa catatct 447

<210> 4501
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099a02b1

<400> 4501

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accttgtaag aggtacccag ccccccctggg catatagcga tgggtatgtc gctaaactat 180

gaagtgtgta tgtatggaga gaggcgtggt gcttcttaaa taggcagatt ggagctgatt 240

acaaacaatt ctccgaggtg tgctttaaga acttcggcga cagggtgaag aactggttca 300

cctttaacga gccacataca tattgttgtt tctcctacgg agaggggatt catgcttctg 360

ggaggtgctt cccggagatg gatagtgccg ttccagaagg agattcgctt agagagccat 420

acactgcttg gcaccacatc tctctagctc atgctga 457

<210> 4502
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099a04b1

<400> 4502

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aaaggggggg gccgttttag 120

gggacccaag tttactaccc ggggcaggca acgaaaaagc ttttttttgg ggcccccaaa 180

atcaaattaa cgggccgggt tttaaaaacg tgggaccggg aaaacccctg gggtacccaa 240

actaaatcgc ttggaaaaaa acccccttttt cgccggtggg ggaaaaacaa aaagggcccc 300

aaccaatcgc ctttccaaaa agttgccaac cttaaagggc aaagggaacc ccccttgtag 360

ggggacataa accgcggg 378

<210> 4503
<211> 517
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099a07b1

<400> 4503

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gctgatcaac tcgctgatag ataacgacat agtgccatat gttacaattt ggcactggga 180

caccctcaa gcactggaag acaagtacgg cggcttctta aataggcaga ttgtagatga 240

ttacaaacaa ttcgccgagg tgtgctttaa gaacttcggt gacagggtga agaactggtt 300

caccttaac gagccacata catattgttg tttctcctac ggagagggga ttcatgctcc 360

tgggaggtgc tcgccgggga tggattgtgc cgtcccagaa ggagactcgc tcagagagcc 420

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tcgttacaac atgcatggag attccaaaat aggaatg 517

<210> 4504
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099a09b1

<400> 4504

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ccatcgctac ttatgttgga ccgggcttgt aacttgcttg agagtagtat tttctggtct 120

actgggcaac ctactgtcaa ttacccttgc tatgtttcgt tctcaggatg cacacgttgt 180

cactggttaa catgatgcca ctctcaagga ctgggacctc ggagctggga aaactatggg 240

tactgttaca caccataaga gagatgatcg ggcgcatgga actgtatcca atacagaaga 300

ggtttgaata agcatctgct gacaacataa a 331

<210> 4505
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099a12b1

<400> 4505

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ctttccttcc gcccaccagc accaaccaaa tggctcgctt cgccgaggtc gccgccatcg 120

tcgcccttct ggccatcgcc gccgccgcgc agggtcccat gccggcgccc aagatggccc 180

cgctgccggc gcccccgacg aggttgcccc cgaccgtatt cgcgccgacc ccgatggcct 240

ctcccccggc cccggccacc gacgccccca ccggcgctcc ttccgcgatg acgccttccg 300

cggtcgacgg agcacccgtg ggcgcacctg acggtgcgcc cagcggtacc acccccggca 360

gcttcgccgt ctacgcctcc ttcgtcagct 390

<210> 4506
<211> 517
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099b01b1

<400> 4506

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ccccagcaat ccagagttat ctctggtcct ggtcaacagt ttgggcacgg ctaatggaac 180

ggtagctgct gtaaggaaga tgctgaaacc tgataacaac tcgctaacag aatgtgatga 240

atgtgtcttc attgacgtct taggctcgca attgatgttt agtgctggcc agtgtgcata 300

aagcgcaacc tatggattgc accgcctttg tgcattttga aatcaacggg agcatggagt 360

acctgcctta aattatcacc cgctgttctc tttcttttat gttccaatag aagcgtagca 420

catcacaggg gtgcaaagcc tattctgctg acataatgga aaatgctatg cattgtgcga 480

accagtaaag taagtgttaa tttccgaaat cacttaa 517

<210> 4507
<211> 463
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099b02b1

<400> 4507

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agcagacaca atgtacagct agaacaagag cgagtacaac ccgagggcat cgtgagtgac 180

ggaagcacat tgtgacagtc acactagcgt gtatcagatc ctgcaataag cgaacaccag 240

gaacgattac atgtatggat aagctggaga gttccaccac actaaaacat tgaaaacccc 300

atgggcctgg cggccctgag cttaacgtgc tgacgttctt tcagagcttg cgacctgatt 360

gttgaactaa ggcatgtaag ccaatgaaag accctaagtt atagataaga aggacgggca 420

gatcgcgagc ttttaaaaaa aaaaaaaacg ggcggcccat tct 463

<210> 4508
<211> 127
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c01b1

<400> 4508

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gcggcttcca cctcggcccc ggcgaagaga ccaccttcga cgtgccggta gggtggtcgg 120

ggcgggt 127

<210> 4509
<211> 496
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c02b1

<400> 4509

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ctctctgtgc caggattcgg attccaaaag tctgactctg ctgtatgatt cgtcttcagg 120

ctgccatgga aactatgatg gcagagactg ttgaagatgg tcagacccca agttcaattg 180

cagagctcgc ttccaaggta ctctcccatg tcagttccac aagctcgctg gagtcgccgg 240

ctgttcaagt tcttgaggat aaactcgagg cagaaagacg gggtgcagtt gcgctccggg 300

aagaaatcag tgccctgaat aagcgagcag aaaaagctga tgtggtaatc gcgaaaaccc 360

aacaggagat ggatgaagtc gggaagaagc aagccgagac tgaccagatt ctttagtttc 420

tgttactgag tactcagggt aaccccgttt ttagtttctg tcgggactgg tgatctaccg 480

gatgtgtgct tactta 496

<210> 4510
<211> 484
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316099c04b1

<400> 4510

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cggagcagca acgaatccgc cgccgcccgg caaaagggat ccaaagctcc aatggctggc 120

aagtacatcg tcgccggcct cgtcggctcc tgtgtcatct cgtatgcctg tgactacatc 180

gtttctcaga agaagatctt cggtggcacc atcccaggga ctgtgtccga caaggagtgg 240

ttgaaggcga cggagcagag gttccaggcc tggccccggg tcgctgggcc gccggtcatc 300

atgaacccca tcagccgcca gaacttcatc gtcaaggacc tcaacccctg aggctcaaga 360

tcttaaggtt tgcggtcggt tggaaccttt accctgatgg cgatgcctgt tgctaaatct 420

acctatgtgt gctggctgta ctctcgaggc ntatttgtct gtcgcaataa ttaaaacaac 480

acta 484

<210> 4511
<211> 84
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c06b1

<400> 4511

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ctacctttg aataattgac aata 84

<210> 4512
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c10b1

<400> 4512

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agtgcgtatg aaggcttgta gctccccttt tgcctgatga tttacaggac agttcatttg 120

ttggaagagt gaaacacttt gacaaataaa acaacgtcca tgttcttccc tcctataact 180

acaattaatt tataaaaaaa tatattttct agaaccacta aatgggc 227

<210> 4513
<211> 61
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c11b1

<400> 4513

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a 61

<210> 4514
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099c12b1

<400> 4514

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ccgacgaacg gtagagaaaa ggtaagcatg aacgtcggga attggccgag atgcacagat 120

ctgtggtggc catggcgtgg ttacagtacc gatcgatatg atgatcggaa gctgattggt 180

ttgctcctgc gtgtagtgag gtgatcatga gcaccatggc tatgtcggtg ctgaacccgg 240

acgcgcccat gttcatcccg gcggttttca aaaaggagga ggactacttg cctttgtggt 300

gtgagttggt caagaccact ctattgggta ccgtgtccac tggttttga cagaaccagc 360

t 361

<210> 4515
<211> 114
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099d11b1

<400> 4515

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gcgacactag ccagtggcta aacacccgat cctttcggta taataccttc cttt 114

<210> 4516
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099e04b1

<400> 4516

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atgcagctcg tgctgcgctt tacctctcag gttcaccggc ggcgacggcg gtgcggcggcg 120

gaggtatcta gctagctagg cgggtgttag gccgtgtagg gcaactatac atcttcggca 180

atgtcttctt cttcctcctc catgggagga ttgtaatgga gtgtgtaaac tgtgcgtgca 240

tcccctgggc tgggctctcg ttcgtggaaa ctcaccgtct tgcatttcta cgaccaatac 300

tggtgctctg ttgcctcgtt gaaaagaaat actatactag tgctcttgtt gtggaggctg 360

ctgtattcct gtttgtggcg agctggtgtt attgtcatgt caacttttta ccgttgatct 420

ttt 423

<210> 4517
<211> 98
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099e06b1

<400> 4517

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ggtttagtag tggggaagag gttgaataac aacaattt 98

<210> 4518
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099e07b1

<400> 4518

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taccaacggg catgatcatg ggcttcgtgg ccagagtttt atgcggaggc agacgttgac 180

gaaagaagaa caagtaagcc cacactttcc ttctactatg tagaaca 227

<210> 4519
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099e09b1

<400> 4519

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aacatcattt gaggatcacc tgctgtggca ccctgactgc aataccaata acatatacat 120

aaccagtgat caagatctta ttatttctta ctgcaaggct gattccactg attcatcttc 180

agaagaaaat gctggctcta taaacattag caacatactg acagggaaat gcttggctaa 240

ataaaggctg gcaatttcaa cgagcaaaaa atacatggaa gttacagaat acaattactg 300

aggcttttga ggacatcaca ggtttgtacc tacgataaca gcgtgatgag atctacac 358

<210> 4520
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099e10b1

<400> 4520

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ggcgagcgca tgcggtgaag gcggtggcgc ccacataaac ctcaaggcca agggccagga 180

tggcaatgag gcgttctttc gcatgaagag atctacccag ctgaagaaga tgatgaatgc 240

ctactgggac cgccagtctg tggatatgaa agctatcgcg ttcctgtttg acggccgcag 300

gctccgattc cgagcagacc cctgatgagc tcgagatgga agatggcgat gagatcgacg 360

ctcagattca ttagaccgga ggtcgcctt 389

<210> 4521
<211> 496
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099f03b1

<400> 4521

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agagggcgag atgggggcgt tcgaatctgt gcccgagacc tccgtacacg aatttaccgt 120

taaggattgc aactggaagg aggtgtgcct ggacacgtac aaggggaagg ttcttctcat 180

cgttaacgtc accttcaaat gcgggttcac ggagactaat tacactcagt tgactgagct 240

ttattagaag tacagggaga aagactttta gatattagca ttcccctgca acccagtttt 300

tgcgacaaga gccaggcagt gaccagcaga atccaagact ttgcatgcac aagattcaaa 360

gctgaatatc cagtttttta gaaggtgcgt gtaaatggcc cagatgctgc gccgctttac 420

aagtttctga aagctagcct acctggtttt gttgtgtcaa gaattaagtg gaactttacc 480

aagtttttgt tgccag 496

<210> 4522
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099f11b1

<400> 4522

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ccactcttta taatttcctg aggtaaacta tcactaataa gttcatcgat gtgtttgaaa 180

tactgtaaag agatttcttc ccgctgtcac cagaaaatat tggcttttaa tgtccatcga 240

tttacataaa cctggaaaag gagaaacaga ccaaaagagt aaatttggga atggtttacc 300

gcgcacacta taatctgact aaagcaacac aaatttttcc gagaaacctt ttctaatcaa 360

ttcatcaaca tcaatgcggt tgaaatacca tgaaatcttc ccttttactg gaattcaggt 420

aacattgaat ctgaatatac aatctatata cataattttg aaaa 464

<210> 4523
<211> 197
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099f12b1

<400> 4523

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agctgtaaaa gcgtggatga gctcgatctg ggaccaccga ccctgtcaat ttgcttctgt 180

aaaactgtga attcgcc 197

<210> 4524
<211> 427
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316099g03b1

<400> 4524

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cggccgcgcg gcgctgcgaa aggagacaac gatggaagag gacgagtggt ctggccgagc 180

ctgcgccaag caagcgcgcg ctccaggcgg gacagtggtg ggcagtagag ccggatgggc 240

gggccgaacc ggcaggctct acccagggcc caactgcgcg ctgaccgaga accgacagag 300

ggagtgggaa cgaaaagaca ggaggaccgt ggacatggaa gtcgaaaccc gcgaaggagt 360

gtgccacaac atagctgccc gatcaactag ccccgaaaac ggacggcgct gatgcgcgcg 420

acccaca 427

<210> 4525
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099g04b1

<400> 4525

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tgataggcgt gagacctata atcagtgtat ggaagaagct ctgaaggagg gaatggttgg 180

aggaggaggt ggatg 195

<210> 4526
<211> 203
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099g07b1

<400> 4526

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gacattgaca cgctccgtgg atttgatcca gccatgaacc tggcggtgga taacactgtg 180

gaggtcaatg gagactaaaa gac 203

<210> 4527
<211> 510
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099h04b1

<400> 4527

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ccacaagttg tcactggctc acatgataca actatcaagt tctgggatct tgtagctggg 180

aaaactatgt gtactcttac acaccataag aagtctgttc gggccatggc actgcatcca 240

aaagagaaat catttgcatc agcatctgcc gacaacataa aaaagtggag cctgcccaaa 300

ggcgaatttc tgcacaacat gctgtcccag caaaaaacga ttctgaatgc aatggctgtt 360

aatgaggatg gtgtcctggc aactgcaggg gacaatggaa gcatgtggtt ttgggttgga 420

aggaatggcc ataattttca gcaagaacag actattgtcc agcctggatc attggagagt 480

gaagcatgta tatatgccct tttttatgat 510

<210> 4528
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099h06b1

<400> 4528

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gggcggaggc cgaccgcctc gaggcgcagg aggcccgcgc aagggccgcc gaggccgccc 180

agaagaggca gcaggaatat gaaaagtcag ctgctggacg agcagcacga gcacatatta 240

aagctatgaa ggaggccaag acatcatcaa accaaggaga gccggttctg aagtggcaga 300

tggggtaaat catcgtatgt gtccttgcaa ctttcagcgt gttgttgatg gtgtgtggaa 360

gcttgttttc ttttgatcat gcgatgccag ttggtcacct aactcagttg tgatttttgt 420

cagtgaaatg tacattcttt taggcactgc tatacacgcc ttttcagaga gtta 474

<210> 4529
<211> 488
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316099h07b1

<400> 4529

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tgtggagcac gctgctgcta cctggtcacg ctctcagcag tgtgaattcc cagaagcatg 120

cttgccgtgc cttcttccgg gtgcaccgga ggctggcatg tgagcaggga tgcttcagtg 180

atgcacaaga aaaacggcaa gtcttatcgg caagggaagg ctacgccttt ctttcaggtg 240

tccctctctg catctaaatc tgtgtatgga ggaggggggct acggttagtt tacccaccgg 300

tttactgcgt tcttgtgagt tgtgatcatt atcatgcact tgtcagttgc ttgacatgta 360

tggcgttctt gaattttcag ctacataatg gtctgttgtg tgagtgaatg ctatcgcgtt 420

cttgaatgct catgtgacag cctgtgtgtt gactgtcctg tgaggcaata ctaaaaaaag 480

tgtgatgt 488

<210> 4530
<211> 577
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316099h08b1

<400> 4530

ccacgcgttt cgtattatat naanaaaaaa ataaaataaa aataagggat aaattattat 60

attataaaaa tataagggta tttatattat atattaaact ctaattaata ttaattactt 120

actctctttt ctattctctt ttcttttccc ttttctcctt tctttccctt caaaatgggg 180

ggggcccttt ttgggggtcc ccgttttctt ccccgttgct ggcccctttt ttttttttt 240

ttggggcccc ctattttatt ttcctgggcc gtgttttccc cccgttgggt tggggaaccc 300

ctggggttcc ccccttttt ttcccctttgg gcacctcccc ttttttcccg gtggggtttt 360

tccgggggggg ccccccccg ttcccttttc ccaacgttgt ccccccttt ttgggattgg 420

gccccccccc ttttggggcc ttataggcgg gggggggggg gggtttcccc ccgggtgccc 480

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ccttctgcgg gtttccccgg gggttttat gggggt 577

<210> 4531
<211> 498
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100a02b1

<400> 4531

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cgcggatgga gctcatgtcc aggaggacct ccggcgtcgt ctccttcgcc acgtgcaccg 120

gttcgatcta ggaccgctca aagcctcgcc atcgagctct tctccgccgc ggacgtcaca 180

accttgccgt cgtctgctgc tcctggccct caccgagcct ttcttgagct ccccgatgcc 240

accgccgacg gatgctacta cgtggatacc gctgacgacg aggagtagtt aggaggtccc 300

aggcaggagg tcttgcctct tcaatcgttg ttgcttttgt gtttgccttc taaaagcagt 360

cttgtttaag ttatgtctgt gctcagatat tgttgcttcc gctgatgctt gtgtatcgag 420

cttgtattcg agccctagag gcctctggct tgtgatataa agcttggatt attttgaaaa 480

aaaaaaaaaa agggcggc 498

<210> 4532
<211> 532
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100a03b1

<400> 4532

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caaaagtaat caatcctacc atgttcgatc aagttctgag aaattttact ccagatgcac 120

cggctggaac atctgctcgg ccaagacaag aagatgccca agagttccta agttttgtca 180

tggatagaat gcatgatgaa ctgttgaggc ttaatggcaa tggttgaaat tcaaaggaag 240

gcatggttgc tttttgtgat gatgaccatg cctgcgagac tgtaggtagg aagaacacat 300

ctgcaatcat gaggacaaca gagttttgtt cccttcgatc taagcgctat ttttggaggc 360

aagctacaaa gtgtagtgaa agctgcaggt aacaaaacat cagcaaccgt tcagcctttc 420

ctggtgcttc atcttgatat atttccagat gccggtcaaa ccccttgacc atgcacttca 480

tttgttttcc acccctgatc tttggaagga tacagaacaa ctggtggaaa gg 532

<210> 4533
<211> 543
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100a07b1

<400> 4533

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gccaaagccc aaaaatcccc ttgatctact gccaccaagc aagatggtac ttgatgactg 120

gaagaggcta tactcaaaca ctaagagcaa cttccatgat gttgctgtta aaggtttctg 180

ggagatgtat gacccagagg gctactctct ctggttctgt gactacaagt accaggaaga 240

gaacaccgtg tcctacgtga ccctgaacaa ggtcggcggg ttcctgcagc ggatggatct 300

gtgccgcaag tacgcttttg gcaagatgct cgtgattggt tctgaggcgc ccttcaaagt 360

caaggggctg tggctcttcc gtgggcagga catccctgag ttcgtcatga atgaggtcta 420

tgacatggag ctctacgagt ggactaaggt tgacctctcc gacgaggccc aaaagaagcg 480

tgttgaggcc atgatcgagg accttgagcc gtttgagggg caggccttgt tgacgccaag 540

tgc 543

<210> 4534
<211> 491
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100a08b1

<400> 4534

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cgcctccctc ctcgccggcg cctccatcga ccacaacata tacaagcccg acatgaccct 180

cccgccggtg gaggccgccc acggcaacgg agccggagcc acagacggag gcacgcgcac 240

ggagagctga gctaaatgtg acggctggcg ggcgcccgag ctctgctcga tgcccatgag 300

gatggattta ctacagtgtc attagtcctt actttctttt tacctctcaa ggcagcatgc 360

aagcgcggcg ccattctacg tgctagctcg gtcccaacat atgcggagat cttcgtccgt 420

tctgctgggt gttcaaacct ggacaaagac aacagctgga gccgtatctt cagtactact 480

ctgcctaaac t 491

<210> 4535
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100a11b1

<400> 4535

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acactgaaca aggcacgagc aacgacgact cggtgggctc taagcggtgg cgatccgatg 120

ggctcccaac gcttaatggg cggctgatca accaggggggc acgcggcgag atcgtcatca 180

tagcctgcgg cgcggtggtc ctcagcacca ggtgaaggaa ggaagaagag gacttgattc 240

attaagttgt cgtcgatgag attttcctct tgtttgctag taatgcacgg aaaagctttt 300

ctttgtttga gcaatgaaaa catagattaa ggagtgaaag gtatgcaaag acaaacatga 360

ttctattgtt actctgtcac acacccccaa gtgtctt 397

<210> 4536
<211> 494
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100b01b1

<400> 4536

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gctccaagac ttggaggcga tgtcgtggtg gaagtccaag tcgcacttca gcgccgacag 120

ccaggactcg agctccgacg acgcgtaccg aggaggcaag gaccgttcgc cgtcgcgtct 180

caagaagtcc gacgaagact atgaggagta ccgcccatac gcaggctacg gcgccaacac 240

caaccgtggc ggggccaacg aaggcggtgg cggctacaac ggtggttacg gcggcggtgg 300

cggtggttac aacaacggct acggcggcgg tggcggtggc tcgtacagta acggtaacgg 360

cggtatcacg ccctacaacg gtggcggtgg cggctacaac aggaactctt cctacggcaa 420

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caccgttcca gctg 494

<210> 4537
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100b02b1

<400> 4537

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gcggtgtggg ctcgcgcctt ctgccacagg cggtggccat cgccatcgcc gtggccgtcg 120

cctgctgcat ggccgcctcg ccgtcgtcgg cgcaggggac gacgacgccc gcggatgcca 180

ccggcgcgct tccgtcttgc tcttctaagc tcgtgacgtg cgcggtctac ctgaacacca 240

ccgacacgcc gccggagttg tgctgctacc cgctcaagga ctcctcttcc acccacgctg 300

gcgttgcttg cccgccatcc tcatgaacaa 330

<210> 4538
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100b03b1

<400> 4538

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cccttatctt ctccgacggc ctcgccggcc ggagcggaga cgggagaggt gcatggcgtt 120

gtcctatgta tatagaatct aggtataggt tgaggtcgag tagtgcccat gtggcgtatg 180

gctgtatgcc gatgtggaga gcgccgccgc cgcgtacgag cagcggctgg tggctcacgg 240

tggctgcgtc tcaggcaagg ctggctggcg gccagtctct cccgaggggc gtgctgctgg 300

ctcatccacc aataagctcg tctggtcccc tgttctggag gctctccgct acttctctaa 360

gctcgtggcg tcgccgtggt ggtgaagacg aagagtagaa gagatgggga accagatcgg 420

gtcagtgc 428

<210> 4539
<211> 193
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100b04b1

<400> 4539

ctgacgcgtg ggcggacgcg tgggggaaag gcgaacacaa ctacctgcct ccttcgggca 60

acaccgttgg tccctgccac ctccgtcgtc tgctccggcg actagcgggt ggggaccctg 120

ggggttcggc tccgactgtt gatagagcta caacttaatg ttctccatac aatttgctat 180

gtgcactcta tga 193

<210> 4540
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100b10b1

<400> 4540

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aaaaacaaaa actccaaaag cacaaaaacg caccaactgg cacaactcaa ggccacacaa 120

aaaccaaaga aaggggggggg ggggcttaag gggccccagg tttactgccc gggcccggca 180

gcgccatggt ttttctttgg ggcccccgaa gtccaaccga cgggcccgcc ttttccaccg 240

gcgggccggg aaaaacccgg gggtcccccc ctttaaggcc ctgggggcaa atcccccttt 300

cgcgggtggg ggtacaacca aaagggcccg cactgctggc cctttccaaa agggggccac 360

ccggaaggga aacggggccc ccccccttggc cgggcccatc acgcgggggg gggggggggg 420

tctcccgaag ggggcccggt cctttt 446

<210> 4541
<211> 204
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100b11b1

<400> 4541

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ttttgtcttt gttgagcaaa attaggaggc taggatgacc ttgtaaagta aaccctgtat 120

atatggcatc ccatggctta ttacaggttg gctcaaaaaa aaaaaaaaaa aaaaaaaaaa 180

ataaaaaaac ataaaaaata acaa 204

<210> 4542
<211> 466
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100b12b1

<400> 4542

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cctgtgacca accatgttca gagcgcggag caacacaacc aagatgtcaa ctctcttggt 120

ctcatctcct caaggaagac tgcagaggcc attgacatat tgaagctcat gtcctcaaca 180

ttcttggtcg cgttgtgcca ggctatcgac ctccgccacc ttgaggagaa tgtcaagaat 240

gctgtcaaga gctgcgtgaa gacagtggct aggaagacac tgagcactga taacaatggc 300

catcttcaca acgcacgctt ctgcgagaag gaccttctgc tcacaatcga ccgtgaggcc 360

gtgttcgcgt acgcagatga cccctgcagc gccaactacc ccctcatgca gaagatgcgt 420

gcagttcttg tggagcacgc cttggccaat ggtgaggccg agcgcg 466

<210> 4543
<211> 230
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100c01b1

<400> 4543

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ttgtgttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacccaaaa 120

aaaaaaaaaa aaaaaaaacc aaaaaaaaaa aaaaaaaaaa ctaaaaaaaa aaaaaaacaa 180

caaatcccaa ccaacacaca actcaacatt acaccaaaac aaaaaacaaa 230

<210> 4544
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100c11b1

<400> 4544

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ctccccccctg ttccgctcct tcctcagcca gaagggcggc gcgtcctccg acaagaggaa 120

aatggaagag cagaagccga aagaccagag gttcaaggcc aacgagaaca agcctgtaat 180

gaacgaatga gcatcgcctg gacagtccgg tgcctgcaag gcctagctgc caatcatgtg 240

acactcctat gttaaaatga gtggtgtgaa catctgcttg gtcgttctga aaactatcca 300

agtatccagt actgtgtttt aagttcctat atatctgaac tgcatgcctg gaatgataaa 360

ttaggagaat ttatcttgcg atgtcttctc atggagcatt caagttttgg aatccacttc 420

cagtt 425

<210> 4545
<211> 62
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100c12b1

<400> 4545

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ga 62

<210> 4546
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100d04b1

<400> 4546

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ggatatgcca aagttaccgg ttccatctgg gggtcgagtt atttagacag gcagatgaag 120

ctggggaatc tttattgaga atgctctggg atcatgaaga tgctattttg tgctgttctt 180

tcaaggaaaa gcctgtattt acgttcgcaa acgagatggg aattaacatg ttggaaacat 240

ctttcgttgc ccttcaagat ctctcgttgg acaagatatt tgatgaagct ggtagaaagg 300

cactatactc cgagatccca aagctgatgg agcagggctt tgtttacctg ccaggcggtg 360

tgtgcttgtc tgggatg 377

<210> 4547
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100d06b1

<400> 4547

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gtagctttgt agttgccatt tgatacagga gaggggtat agcaggaaat gtaatataaa 120

gcgtaggtgg tgggggtgac tggcgttacc 150

<210> 4548
<211> 184
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100e02b1

<400> 4548

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tttatttatt tataaatgtg gccatatgca tcttgtctga tgcagaggcc ggggaagtct 180

ccct 184

<210> 4549
<211> 65
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100e04b1

<400> 4549

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cacca 65

<210> 4550
<211> 77
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100e06b1

<400> 4550

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caaaactcta ataaaaa 77

<210> 4551
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100f07b1

<400> 4551

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ccaacccgac ccgatctccc ccctcctcct ccgtcgccat gggccgcaag ctcttcgtcg 120

gcggcaactg gaaatgcaat ggaactgtcg aacaggtaga gagcatcgac aatactctga 180

acgctggaca gatcgcctct acggatgctg tcgaggctgt cgatagcccg ccctatgact 240

tccttcccac cgtcaagggt aagctgcgcc cagagatcca agttgctgct cagaactgct 300

gggtgaagaa gggcggcgcc 320

<210> 4552
<211> 173
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100f08b1

<400> 4552

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cgggcagggg ggcggaccca gcggagcggc gcaggcggcg gagcgggacc aca 173

<210> 4553
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100f10b1

<400> 4553

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gaagcagtgt ggagcacgct gctgctacct ggtcatgctc tcagcagtgt gaatctccag 120

aagcatgctt gccgtgcctt cttccgggtg caccggaggc tggcatgtga gcagggtgtc 180

ttcagtgatg cagaagaaaa aaggcaagtc ttatcggcaa gggaaggcta cgcctttctt 240

ccaggtctcc ctctctccat ctaaatctgt gtttggagga gggggctacg gttagttcac 300

ccaccggttt actgtgtcct tgtgagttgt gatcattatc atgcactcgt cagttgcttg 360

acatgtatgg tgtcgttctt gaattttcag ctacatataa tggtcggttg tgtgagtgaa 420

tgggagtgtg ttcatgtgtc 440

<210> 4554
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100g03b1

<400> 4554

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aaggctgtga agtccgggtc aatcaagaag accgcaaaga agatccgcac gtctgtgaca 180

tttcaccgtc ccaagaccct gtccaaggcc agggacccca agtaccccag gatcagcacc 240

cctggcagga acaagttaga ccagtaccag atactcaagt acccgcttac cactgagtct 300

gcgatgaaga agattgaaga caacaacacc cttgtcttca tcgtcgacct gaaggcagac 360

aaaaaaaaag atcaaggctg ccgtgaaaag atgtacgaca tccaggccaa gaaggttaac 420

accctgatca ggcctgatgg caagaagaag ggttcgtgaa gcttgacccc agac 474

<210> 4555
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100g06b1

<400> 4555

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atcaccaaga tccaccacat ggtgtcccct aactggatct ccttcactgt tcttcatcac 180

ccctgtcgtc tgcacctacc agtacccgat gttctattaa ggagcatgag aagctgtccc 240

acagatacta gatgtgaagc tttgtcaaat gtca 274

<210> 4556
<211> 500
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100g07b1

<400> 4556

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caatggcagg caaggcatca atcgcgttgt tcctcgccgt gaacttggtc gtgttctccc 120

tggcaagcgc gtgcggggga aactgcccga ccccgtccac gcccactcca tcgacgccca 180

ccccgacccc ggccccgctc ggcaggtgcc cacgcgacgc gctgaaggtg ggcgcgtgtg 240

tcaacgcgct gaacctgatc aaggtccagg tgggcaggcc gaccgcgttg ccgtgctgcc 300

cgctgctgga tgggctcgtc gacctcgagg cggacctgtg ccctctgcac ggtgatcaag 360

gccaatgtcc tcaacattgt ccagttcacc cttcccatta acctcagcgt catcctcaaa 420

cactgcggca agaaagcgcc caccctgatt catgtgctaa gcgatcagca aggtgtggca 480

tgctgcccac gcatgccttt 500

<210> 4557
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100g10b1

<400> 4557

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agcttttcgt ggaaatttta gtcaactcag cagcttgatt agagtcattg ccgataacaa 180

tggtatttct gaagagcaag caccagctgc tggtctggta gctgatcttc ctctgcagga 240

ttcggtgcta accagacgtc ttgttgaaga tggggctttc accacaataa tatccaaagt 300

gataatgatc agacaagggg agagtcgtgg ggggcgtttc gtcaaccctt ttcttgaagg 360

tctagttagg atagtctccc ggatcacatt tatcttggag gatgatccag atattattgc 420

ttgtgcttgt gaatacaatc tcactgcact atttagtgat ctgcttcaga tgaatggtc 479

<210> 4558
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100g11b1

<400> 4558

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ggccatgagc tgcggcggcg tggggcacgg cgggtggctg ctggactacg gcctcgtgga 180

ggaggagatc caggcctccg acttcatcta catggtcgac gacccgtcgg tcttaagctg 240

catactgggg ttcgatgttc cc 262

<210> 4559
<211> 511
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100g12b1

<400> 4559

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tgccgggcgt ggaggtaaac gatgagatca ccaaggccaa ggagtctgtc acggccatct 180

tcaaggccgc cgaggcctac ctcgtcgcca acccggacgc ctacaactga accagctgag 240

agggaacaca tatggttatg attatgatta tgctggccct ggtatgattt ttgtgtgctt 300

ttttcctgat ctaataaagc cgctccaatc gcaagtagtg acgcgggagc actgagcaga 360

gtgtggactt gacaagttaa aaaggtcgtg tattcagtat ttgtaactat caaagggtgc 420

catgctgttg tttgatgatg ttgttgcttg cttatgtatc ttcctcatgg ctttgcccgg 480

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<210> 4560
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<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100h01b1

<400> 4560

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<210> 4561
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100h03b1

<400> 4561

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atcatgtaaa ataaaaacaa actaagctgg ccttatttgc gaggcacttt ctaggctctg 180

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tagaccggtg accttggatc tttggaaaaa aaaaaaaaaa agggggggc 288

<210> 4562
<211> 407
<212> DNA
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<223> Clone ID: uC-tsro9316100h07b1

<400> 4562

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aatgagagag tgctgccttc aatcattcat gaaacactca aagctgtggt tgcccaatac 180

aatgccagtc agctaatcac acagagagag gctgtgagca gggagatcag gaagattctg 240

acagagaggg cgaagaactt caacatcgct ctggatgatg tgtccattac cagtctcagc 300

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cgtgccaagt tcattgttga gaaggctgag caagacaaga aaagtgc 407

<210> 4563
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316100h10b1

<400> 4563

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gtgattctgt gtgcatgtaa ttacgggtgt tgtggcatcg tgttgccgag gtgcgcagtg 180

atactctttc cagttttgtc gtgttcaata agtgaaatct ttcggattgc tggctagttt 240

cagtattccc aggatattga aggatgtgca gtcgtaagag gccaaggcct aaaatagaaa 300

ctggacgaag a 311

<210> 4564
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101a01b1

<400> 4564

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accgccgaca cccgcgctgc atatcccgca acgagagaga gggctcaagt ctggaccggc 120

aggggctatg gccacgttaa caccacatca cgagaccatc ttactgaaca gccccgcaag 180

ctgagcgggc gacgaccacc 200

<210> 4565
<211> 518
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316101a02b1

<400> 4565

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gtcgatcgtg ctgcatctcg cgcggtgaga gggagctctg gagtctggac tggcggcggc 120

gatggggtcg tctgcggtgc agaaggaggc cgtcgtcctc aacggcggcg gaagcggagc 180

gggggaggac caccggctgc gggcgctggc ggcgaggacg gtgacagact cgctcagggc 240

ggccgtggcc aggtccagcg cggcggacaa ggcggccagg ctcgaggagt gcgcccggag 300

cctcgaggcc gagaaggcca aganggggagg tcttccgccg cgagctcccc atcagcgtcc 360

acctcatcgc cgacgtgatc gagtggctga aagatgaagg tggcgcagca ccggagaccc 420

gcgccggatc agctgctcgc accggcgccg tcgccgtcac ctgcaccgcc ggaaaagagg 480

gaggcgtagg tcgtcaagac ggaagcagac gcgagcga 518

<210> 4566
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101a03b1

<400> 4566

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cagcgtccct tgatatgtct gagaaatttg gggtaactgt acgtaaaagg tctgacctat 120

ggctcaaggc tattccacat gcacgctcca aagctacaca tatatagatc caccttaaca 180

gagtggatgt ctgttcttgt cgcattttgt acctttatgt ttacattaga ataaggaggag 240

ctcttggaaa aacatgtaac aatcgggtgt gactacggcc 280

<210> 4567
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101a08b1

<400> 4567

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gaagtctgtc caggaggcca tcaaggagaa aagccaggcc ccttccccat tgtagaagct 180

tttttggttt gaaccttccc tattgtactt ggattgatcc aaaacaatga tcgcaatgcc 240

acaccttatt cacactgttt atgtgtaaat gacctttttg ttgggacaaa ggcaatcctt 300

gctgtatcac atttgtacat ctaaggagtg gtgacagcca tgtcttaaat aaaaggaggca 360

tctgcctgca gttat 375

<210> 4568
<211> 66
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101b09b1

<400> 4568

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ataaaa 66

<210> 4569
<211> 509
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101c01b1

<400> 4569

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agagcaaaga atgcagttgg gctccaattt tcgtgaggca gtcaaacttc aaattgcctg 180

ctgatcctac agtgcctatt ataatggtgg gccctgggac tggccttgca cctttcaggg 240

gcttcttaca ggaaagatta gctttaaaag agaccggggt ggaactgggc cgtgccatcc 300

tgttcttcgg gtgcagaaac cgccagatgg acttcatata cgaggacgag ctgaacaact 360

ttgctgaatc gggagccctc tccgagttag tcgtcgcctt ttctcgtgag ggtcctacaa 420

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agggcggcta tgtgtacgtc tgcggcgac 509

<210> 4570
<211> 513
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101c06b1

<400> 4570

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gccgcccccg cgctcctcct cgccgtcttc atgccggccc tcgccgccgc gcaggccccc 180

gcgccggcgc ccaccagcga cgcgtcctcg gtcgaccagg gcgttgccta ctttctgatg 240

atcctggcgc tggtgctcac ctacctcatc cacccgttgg acgcctcctc cccgtacaag 300

ctcttctgag cctgtacatg cgcagaggct tctcattctt ttgttcatct ttctgttgtc 360

cgtcgatcga taagctagtg gattcttgag agattggctg tgtgagattc gatttgaatt 420

cattaatttt gttgctcctg tactctggtg gattcgcacg cacgcgtgct tatttttgtt 480

ccatgctcct caggtctgtt gccactaatt atg 513

<210> 4571
<211> 91
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101c09b1

<400> 4571

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tctgacgcgc cagatgattg attgctgctt g 91

<210> 4572
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101c11b1

<400> 4572

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gacaataaat agagcctcgt ttgtttgggg ccaatcaaac caaacaacaa gttcatgtct 180

gatctcgacg tccaggttcc aactgctttt gatccgtttg ctgaggcaaa tgctgaggac 240

tccggcgctg gtgctggatc aaagaactat gtgcatgtgc gtgtccagca gcgcaacgga 300

agaaagagtc tgactactgt tcagggcttg aagaaagatt acagctacaa caagattctc 360

aaggatctca aaaaggaatt ctgctgtaat ggcactgtag tccaggatcc agaactaggc 420

caggtcatcc aactccaaag tgatcagc 448

<210> 4573
<211> 505

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101d01b1

<400> 4573

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catgcgaaac cctcttcagc ttcaggtgca ggcctcaagc atgagtaggc tcggagctcc 120

cggtgcagtt cttcccctcc ttgcagaatc tcaaactgag ggccgtagca attcacctct 180

atcatctcca accgcttcac aagggcttct ggacgcagca ggcccagaag acagcttggt 240

ctttgagcaa gaagttataa agctgatgga aacaagcatc acaaatgcaa tgcagtacct 300

tcagaacaag ggcctctgcc tgatgcctat cgctcttgct tcagccatat ccaaccagaa 360

aggcacttct gcagctgcaa tccctccaga aaggtgaaaa cagaaagcac atcatgctcc 420

tcccatcggc ccgcggaaac aactgtcgaa atgtgctaga gttcatagaa gttgtgagaa 480

aacaaaaatc cgaggctgaa ggata 505

<210> 4574
<211> 211
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101d08b1

<400> 4574

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tttgtaccaa ttttaatcag tttgccttta tagttcagcc ctgtaaatat agatgattct 180

agtaggtaca aatgttacac atccagggaa c 211

<210> 4575
<211> 237
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101d09b1

<400> 4575

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gtaggcctcc agccagaacg gcgagatcct cgacgccaag atcatcaacg accgcgagac 120

ggggaggtcc cgtgggttcg gcttcgtcac gttcggcagc gaggagtcga tgcgccaggc 180

catcgaggag atgaacggca cggagctcga ctggcgcaac atcaccgtca acgtggc 237

<210> 4576
<211> 296
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101d10b1

<400> 4576

ttggttctgg gatcgaattg gcgcgcatac atgtgatgtg tggatgcgat ccatggccga 60

ttccatttgc tgtacttgta ccgtgagctt atctacttga ttcattgttg ccttcggaat 120

aaacattgct acaattagac cttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaac aaaaaaacaa aaaaaaaagg ctgacataaa cgaaggtctg actgtccctt 240

cggcccgaaa gagctgaaac gaaggatctt gaagacacaa ccccttggct gggccc 296

<210> 4577
<211> 520
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101e01b1

<400> 4577

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gtacgaaaag cagatgaaag cagcaaggaa gactgggagc aaggctgcac atgataaggt 120

taaagaccaa gcaatgtcaa aggcccataa agaagttgcc aaggggaagg ggaaaggaaa 180

gaatgtggca aatgatgatg ataacgtgaa gccagcggat ctgccacaaa agtggcatga 240

ctacaaagtc gagttccact tcccagaacc cactctgctc acaccaccac tccttcagct 300

cattgatgtg ggtttcggct accccaaccg tccggacttc aagttgccag atgttgatgc 360

tggcattgac atgggaacac gtgttgccat tgttgggccc aatggagcag gaaagtctac 420

tattctaaat ttacttgctg gtgatcttaa cccatccgaa ggagaggcat gaaggtacca 480

gatgctgagg attggacgat actcttagca ttttgttgac 520

<210> 4578
<211> 502
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101e02b1

<400> 4578

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ccgctgtcgg ccaccgcgca ccagatgttc atgagcgcgt cgagcgccgg ccacggcggc 120

gaggacgatt ccgccgtcat caagactttc cccggcatca cgctgccgtc cgcccgctga 180

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cgtgcagacg atcggcgtgc ccgccggcga cgccgcagtc gataccctga tcgacgccga 360

cgcgatcgtt gccgcgctga agtcgtgcac gatccccgag gacgacgccg tcgagcaatc 420

gtttgccgca tacgaatggg ctgcacgcgc aagggttgcc ggaggtcttc ttcaaggact 480

gctcgacatt ggactccacc ga 502

<210> 4579
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101e03b1

<400> 4579

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cctgcaagaa gtactgatcg gctcatgcca gcatgatatg ttccgcctaa aatgaaataa 120

aagctcagac gagatgagca gcgtcatcgt gcctatgcgt gtgtgtgtgg ccaacaaata 180

tgtataccag tatgccgtgt cttcgtcgct gtgttttctc tctcgagaaa aagttggtgt 240

tgcttgttgt tcagatatcc ggaatatcct ccgtgaataa gtaatgattg tgcgttggcg 300

gc 302

<210> 4580
<211> 451

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101e07b1

<400> 4580

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gcctaagggt caatctggtg gcgttggcga gcgatctggc ggcagagatg gtggccgctc 180

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tggtggccgt gatggtggcg gcaggttcgg ccggcctggc ggccgtgatg gcggcagagg 300

aggcggccga ggctttcaaa agagacagag tgctggcaca tgcagagccc ggaagaagac 360

cacgcttggt gacaattaga aaccgtttga gccacaaaat gagcctgatg caactgccgt 420

gtgtctagac gactgattcc ccgtgtttcc c 451

<210> 4581
<211> 509
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101e09b1

<400> 4581

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cgccaattcc tatccgaacc cacatcagag cttgagaaag tcgaggtgga gaaggcaaag 300

caggatgatg gcctatctga tcttagcgac atactgaccg agttgaaagg aatggccatt 360

gacatgggaa ctgagattga ggggcaaaca aaggatctgg gtcacgcaga gaaggacttt 420

gacgaactta actacagggt caaggggggcg aacactcgaa cccgtcgtct gcttgggaga 480

tagaggaaag catatgttgt cactggaga 509

<210> 4582
<211> 415

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101f01b1

<400> 4582

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tgatggcgct ctacaagggg ttcatcccca cggtgtcgcg ccaggggccc ttcaccgtgg 180

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cattgatgcc gctgctgcta agaatactat gaggaccgct ggagggattt ctccagttcc 360

tgcctctcat ttattcggat gaatttgatc gattttggat gaaattctca atttt 415

<210> 4583
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101f02b1

<400> 4583

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actccagagg ttgtcgtagg ttggcggcag cgttctcaaa acatttacta tcatagggtt 360

gagtttgagt tcgagtatgt gccctgaatc gttaccgggc aatttttcctt aaatacattg 420

tcctccaatc cgactgatat tatggtcaag tttatgctat tggtgtcaac atcctattcc 480

<210> 4584
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101f07b1

<400> 4584

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ccgtggcgct ggccggggtg gcgctgcgag ggggcgccgc ggagggggcc ggcgagtgcg 180

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agccggactc ggcgccctcc agcagctgct gctcggcggt gcacacccta gggaagagcc 300

ccagctgcct gtgcgccgtc atgctgtccg gcaccgccaa gatggccggg atcaagcccg 360

aagtggccat caccatcccc aagcgctgca acatggccga ccgccccgtc ggctacaagt 420

gcggagatta cacgctgcct tgatggccca gctctggtgc tgatg 465

<210> 4585
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101f08b1

<400> 4585

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cataatacct ttggttgatt gatttacctg cctcggttga tttgcctgca cagcatgaat 180

ttgttctgaa cacaacttgc aagtgctctt tgaattgcat ttaccaggag tgagcttcca 240

gcaaaggata tccctgcaat catcaagtac tacaggagta gcaataatag ccgaagcggt 300

aggttcctga aaaaggttag tggcagaatt ataagtatgt atccagttta ctggcaatta 360

cctacagaaa acctttcatc tcaaaactac tagatgtact actatgataa gcaaagtgca 420

gcagcgagca ggattcacaa taaaaaaaaa agaaacataa taatgaattt 470

<210> 4586
<211> 507
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101f12b1

<400> 4586

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tttattcatg atgatgcagg tcaatgtatt aaatgaattg gtagctccag acactcgcgc 180

acaaagcgta gaaattttgt atgaggttag gggtggagta gacatggaat ttcaagttcc 240

agttcctttc aatgttgtac cagttcaaca gatagttcct cagagtggtg gagaaggcca 300

agctgagtta gttcttgatt cttgtattgg tagctccact gtgcatgacc cgtctaagat 360

gtctgctgag ctttgcattg gtgaatcttg cacttctatg ttacagttga tgaagaggta 420

tctccgattg gcaacaacta atgcatcatg gactgcgaac aatttttttg cagtctaccc 480

gtattattat ggggcttact ttacttc 507

<210> 4587
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101g09b1

<400> 4587

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cgtgcgtttg gggttccagg gtgatccggg aggccatggt gatgaagcag gtgcagagtg 360

tgttcctggt gctggagcct ctcctgcgcc gagtggtgca ggaggagatc caggcggagc 420

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<210> 4588
<211> 284
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101h01b1

<400> 4588

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ttcctcccac ccgtttgttt cgggttcatt ttctgcgtgc gtgatgtgtc gcctgggatt 180

atattgggga actgggaggg gcttcctccc agaataccgt gttgatgttg ttgggactga 240

ctatttctgt cgtgagaaca gtttgaattt gtgatgggca tcaa 284

<210> 4589
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101h04b1

<400> 4589

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atcccagtta gagggtggta gaaccgatgt acagaacccg gatgacagca gcagcagcat 180

gcggaccgat cgagtgatcc gaccaagtga tttggtcgct ttccgtcggc ttcaaagtcc 240

acaaccatat atgtatatat gttcaagaca gcgaaaggag tctggttgct acgatgctga 300

gcctctcact ctttggtcgg ccaggaatgg gctatttcat atgggaaaaa cataaattgc 360

tgcaattagt catttttata gaagaaaata tactcttgta gcctgtactt tgtacatatg 420

taaggagaac gcgatccgtg tctaggggat taattgcatc agtaataagg gctctgagtg 480

tgact 485

<210> 4590
<211> 75
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101h09b1

<400> 4590

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ctgggcagcc acgcc 75

<210> 4591
<211> 497
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316101h12b1

<400> 4591

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ggcgactatc cccctcagaa gtggccgata aagtgaagca cttcttcaag tactatgcca 120

taaaccggca caagatgacg gtcttgacac catcctatca cgctgagagc tattcaccag 180

aggataacag gttcgatctc cggcagttcc tatacaactc gacatggccg taccagtttc 240

gcaagattga tcaacttgta caagatatcg acaaagatgg caaatgggtg gaagatcgtc 300

gcgcagactc gcagctgaga caacgcggag ccgctaggcc tgcccaggga ggtggaatgg 360

gagtcgcggc cgcgggatct gccaatcccg gtgctgggct gtaagaaata gggcatgccg 420

acggctggat gaagtaggtc acgcatggac tttagtggcg catgctggat acattgggaa 480

accagcctag tacatag 497

<210> 4592
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102a02b1

<400> 4592

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cacggctgat tcaaggccag tttggcaagc ttccatgaca cacatcgcca tggaggggg 120

atgctttgtg ttgtcggcaa accagttctg ccgcagacag gactaccctc cgccatccga 180

gtacgccttt gccggtttag gagaagagcc ttctccagac accgttgttt gccctggagg 240

cagtgttatc atttcgccgt cgggcgaagt cctggcaggt cccaattacg acggagaggc 300

gctcatcaca gccgaccttg acatgggaga gatcgttagg gccaagtttg attttgacgt 360

ggtgggccac tactctcggc ctgaggtgct gagcttggta gtggatgacc agccgcaccg 420

cccggtgtca ttcacctctg ctgcggagaa ggctccggct gccaagagc 469

<210> 4593
<211> 103
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102a04b1

<400> 4593

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ttaccagtgc cgctgatggc tgaccctgac caggacgagt tcg 103

<210> 4594
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102a05b1

<400> 4594

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tccaaaaagg agaccaccct gagggaccct gaaaaattga caagggaatg agtgaacagg 120

acaaatgaag actacaaaga ggaagatgca tcctgagtac ctaagggcag atctcgacca 180

gacaatacaa aactacacat aaggctttga catgaatcag atgaggaaaa gagaaacccc 240

agaagagaaa accaccaatg cgttcctggg atataggcct gaagatacta attctgcact 300

agacctgact tacaattatg gcgttgacaa gtatgacatt ggagcgggct tcggacattt 360

tgccatcgca aatgatgatg tggacaaa 388

<210> 4595
<211> 324
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 4595

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gggctgacca tgcaacgatc ccattggatg gagtgtacac tgaaagaagc atcccaccaa 120

ctggttacaa tgttgtcaaa gacaaaaagt accgtggaga aatcaaaatt ggtctgacgt 180

tcactccgga ggaggctcgt gatcaggatc aacccgagga aaactatgga aggtggaacc 240

aatcatcttg agaagaaaca ggtgctttgc tgaactatgg ctgcgtgaca agtctgngtg 300

ctagaactaa agcctatttt aatt 324

<210> 4596
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102a08b1

<400> 4596

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gcaccaacga gaagttcaag aggaccctgg acggcatcca gatcgagatg caggccactg 180

accccagcga aatcagcctg gacgtgatca aggagcgcgc gcactaaggc aaatcatccc 240

aatgcctcgc aatatggatt tatgtcaaat atagatttgg cggtgtgact cttgaaactt 300

tcttgatgat tcgtggcttt gttaccgtgt cgaaaggccc tcctcccgtg gtccgtgtga 360

ccacggaggg cttgctctat catgtaatct gttctttttc ttctgcccat ttatatgccg 420

ggccttatgc tgctgcactg cactggtcct ccaagatacg gtta 464

<210> 4597
<211> 243
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102a11b1

<400> 4597

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agcatctacc aaactagtct ttggttgttt acagttttga gatttgtatc tcgggaacct 180

tgtttgagag aactaaagtt atctccttgt gcttgagcat gcaagcggca tctgctgctc 240

tat 243

<210> 4598

<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102b05b1

<400> 4598

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ccgtggcctt ccgtgcagga gcatggtttg attcgaccga aaggccccgg tgtgtcagga 120

ggatcggagg cgggagtcaa ttagacgacc gcaagtgcta ctcgctcaca ttcatgtggc 180

ttcccttgtt ctgaaagttg aaacaaaggc tttgtttgct ggtgattttg aatgtgtgaa 240

gtgtgcatgt gcgtgctgtg ttttcaagtg ttcaagacga ttttttgttc atgccatgac 300

atgacacatt gagtttgata attgtcattg taacattgtt atttgatgaa gcaataattg 360

ggttaaaatt ttacatgt 378

<210> 4599
<211> 374
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316102b11b1

<400> 4599

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acttcctgcc ccttctaggg tttcgccccc caccaacccc tgccccccgg gttactgctc 120

gtgctctcag ccatggcgac cacggccttc cccacctcga ccccccttctt cgtccaccac 180

ggcacccggc gcccctccgt caacctccga acgaccgctg gtggtgtacg gcccgtggtg 240

ggcggccggc tggcggccac tgtcgcgtcg cctgcgagaa ggtggtgggg nggatccgac 300

ccctcgggac caccaactca agccggtcgc tgtcgactgg gcagggcggc aaggcccacc 360

attcgtcacc aacg 374

<210> 4600
<211> 226
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102c03b1

<400> 4600

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agtgagggga ccacactcct actacagcct gcggtgcgaa agaggagctg gcgctccatg 180

cggctacact ggaagaggac gttggtgact caaggcctaa gcttgg 226

<210> 4601
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102c09b1

<400> 4601

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cacaagctca cggacaagag cgacgtgtac agcctgggcg tggtgttcct ggagctgctg 180

acggggatgc agcctatttc tcatggaaag aacttggtga ggagggtggt tggtcggcga 240

accagttggg ggatgattcc tg 262

<210> 4602
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102c10b1

<400> 4602

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atagataaac aaaaaaaaaa aagagaaaaa gtacaatcat atggcattct cctggccgt 120

tcatgtaatt tgttaataaa aaaaaaaaaa caaggggggg ggccgttttg ggggtcccag 180

gtttccgtcc gggggctggc gaggtcttgg ttttttttg ggggccccta atttcatttc 240

ctgggccgcg tttttccacc gttgggccgg ggaaaccctg ggggttcccc actttttgg 300

cttgggggcc cttccccttt tggccggttg ggttatttgc gaaggggccc gcccggttgg 360

cctttcccac cagttgccca ccctgatggg gaatggggcc ccccccttgtt ggggccctt 420

agggggggggg ggg 433

<210> 4603
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102d01b1

<400> 4603

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agaggggaat ccgtcgctgt cgtcatcatc aaccttcctc catcaccaat ttcatgatgc 120

tcatcgtcgt ggatgagtaa ttccatcgta gtcttgctgg acggtgatgg gttggatgag 180

atttaccatg taatcgagtt aattttgtta gggattgatc tctattatcc attatgttct 240

gagattgatt ttgctatgac tttgctatgc ttaatgcttg tcactagggc ccgagtgcca 300

tgatttcaga tctgaactta ttatgttttc atgaatatat gtgagttctt gatccaaatt 360

acataacacc ccttttttttt ttaaaaattt a 391

<210> 4604
<211> 463
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102d02b1

<400> 4604

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gcggcggctg ctgctgtcgg cccgcgacgg cgtggcccgc gtggagcggc tcgcctcggt 180

gcccgcctcc tcctcctact ccgcctcggc gccgctcgtc ggcgcgccgg acccgcgggg 240

cgccgaggcc gtgcgcaggg aggtggcgca tatccagggc ctctgcgcgc agatggaccg 300

tctctggcgc tccatccccg ccaagggcca gcgcgacctc tggaagagaa aagtggagca 360

gctatctgaa gaggtcgagt cattgaagga aaccctcgac aagcacttat tgcggcaacc 420

aaagcgggtt ttggagccaa ggaaagggcg gggctatttg aga 463

<210> 4605
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102d08b1

<400> 4605

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cgtcgtcgcc gtctcgacga ggaacccggt gaagtcccta caggaagctg gggccgcatt 180

gatcgtcagt gactatgaag accagaagct gtggaacgcg ctcgaggaga ttgataggga 240

ggaagcgaag ctaaagactg gtggggcctg aaaaagatga tggtgatgaa cagttgatta 300

gaccattgca aatttaccca ttcttattat ttataaggga atctacgccc tgaagttatt 360

atggtaggac agagctcatc taggtatttt gagctattag tttgatatat gcttcttttg 420

gttctctagt agagaatcaa ataaaaaact tttgtgtccc acacatga 468

<210> 4606
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102d09b1

<400> 4606

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gtccgttgta gcacaagcag aagcaccttg cgccgccgcc tccgtcgtct cagcagaagc 120

agcgatcccc atcgccaaca accaaagaaa gcatggatac gcaggtgaag ctcgcagtgg 180

tggtcaaggt gatgggccgc accgggtcca ggggtcaggt gacccaggtg agagtcaagt 240

tcctggacga ccagaaccgg ctcatcatga ggaacgccaa ggggcctgtc cgggagggcg 300

acatcctcac cctgctcgag tttgagcggg aggccaggag gctgccctaa gcactttttt 360

tcttcacctg tctgtcttcg gaagtactcc tgaaattgtg tgctgttgcc tttttactct 420

actgctttcg gcttttgcct tggctatgga gatgtaatga gtttccttct 470

<210> 4607
<211> 417

<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102d10b1

<400> 4607

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acaaagaacg atacttggcg aaagcctcta tccacttgtt gagaagcttg aacaccaaca 120

agctgccaag gtgacgggca tgcttctgga gatggaccag acggaggtgc tgcatctgct 180

cgagtctcca gaggctctca agtccaaggt tgccgaggcg atggatgttc tccgcaacgt 240

ggcccagcag caaaacccga atgcccctac cagccagctc gcgggtctaa ccttgagcga 300

cggcattatc tcttagttta gagtcagttt gcggtctcat gatgctatag attgttttgt 360

cctccatggg tgaactttgg tgagttgcgt ttttgcactg ggtgttaggc tctatct 417

<210> 4608
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102e03b1

<400> 4608

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ctatgagacc ggggccgctc aacgggtgct atcatggatg gtcagggcgc tggcctcttt 120

gatgctgagc gcctgaccaa cgacaactgc ttggcgcctg tcaatggctg agtgaggcac 180

ccggtcccct atgggaggct gaagctgcga aagaagacct ggcactacca gagcaccaag 240

ggaagcagga gggcgctgac acggagggct aagctacaga ctggccaagg gaaaacaaca 300

gtcgccagtg aacaaaaccg tcgcggttcg cacctgaatt tgatgggatc aaatgct 357

<210> 4609
<211> 371
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102e06b1

<400> 4609

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cgtgggcgcg ggagcacggt acggcgtcga ggtgacaagc ggagacgatc aagaccaagg 120

cggctatgga tgggttcctt gcgaggaacc gcaagaagtg atccatcttc cgactcctcc 180

ttttttattt agcacagcag ttcctttata ctgtattttt ttgtccgaga atttatgtaa 240

ttataaattc ggattaagac ttacactaac aaatacgacc tttatttttct ctaaaaaaaa 300

aaaaaaaaac aaaatataaa aaaattaaaa ataacataaa taaacaaaat aatttttatat 360

atataaaatt t 371

<210> 4610
<211> 460
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102e08b1

<400> 4610

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accaagggaa gcagggaggc ctgccgcggg aggcagagca acagccgggc aaagggaaat 300

cgcagtcgcc gtcaacgttg ccgccgcggt ttgcgccgga gtttgatggg atcgactgct 360

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gcgtgtggct acgtactgat tctttctccc gttgtcggcc 460

<210> 4611
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102e09b1

<400> 4611

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atccaatgga tgtgttggtc ctgatgcagg agcctgttat tcctggttct tttctccgag 120

ctagagcaat tggccttatg cccatgattg atcagggtga aaaggatgac aagatcatag 180

cagtctgcgc cgatgatcct gaataccgtc actacaatga catcagtgag ctgtctcctc 240

accgactgca agagatcaag cgcttctttg aggactacaa gaagaatgag aacaaggagg 300

tcgctgtcga tgcgttctta cctgcgacca ctgtccgcga ggccattcag tattcaatgg 360

acctgtatgc acagtatatt ttgcagagct taaggcagta gcatgtcggt ggttttatcg 420

tggaaatctt ctattaataa taagtgggga agagc 455

<210> 4612
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102e11b1

<400> 4612

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tgagggtgta ttaaattcta gattacagca tttaactcat acacttgata aggtaaggta 120

tgttatgaga tgtatattcg gggaccccaa gaatgccccc cctcctctgg tgaggcttac 180

cgggagaagt ctagtgtctg ccatctggaa aggggaaggc tcattagttg atgagctcct 240

tcagtcaatt gaacatcatg ttgacgaaga tgtacttact gatctcaagg acaaaattcg 300

gcttcatgat ccatctgatt ctgaagacat cgagggagac atccgaaatt ctctgttatg 360

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tgatttgatt caaatgtatg cttacacaaa gggttt 456

<210> 4613
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102f02b1

<400> 4613

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ggcggcgatc cgacttgcgg ccagtcggct catcggcggc cagcgacccc aggcggtttt 120

caagtccgtc gtcttgccgc tggtcgaggt ggggcgtcgc cggctgattc caagtctaat 180

caacgggggc cgacctgcct ctttttctct cagatctatg gcctccggcg gcgcaggttg 240

caaagagttc ttttccggcg ccgccgtcga tgcccaccca cccaacggca accgtgccct 300

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ggagtactgc gagattgata ccaagaagca cgagcttttt tacctgatc 409

<210> 4614
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102f03b1

<400> 4614

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taccagatgg aaaatgactg ggcctgtctg actatcaagc aatgatgtac aggtctatac 120

cctaaagtcc ttttatgatt tatgtatgca gcgaatcttc acgtgatgag ctactatatt 180

ggatgtgggg agacgatttt ggaacctgaa gtgataatag gctcatagac cagacaagag 240

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atcttctggg gccagaccgc gaggctgtgg gacttggatg atgcatgttt c 351

<210> 4615
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102f04b1

<400> 4615

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gcaccctcat cttgctgtcg atatgcaggc acgcattgcc cgcactcccg atctccatca 180

tgctgggagt cgtgtcctac ttctcgacgc ggttgttgat ggagccactc gttgtcggtg 240

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tgtgtcaagc tgaaaagcaa ctgtgaacat catgtgggag tgactactac tttgatggcc 360

tcgccttgga agtagacagt catggaggta tgactaggaa aaggggattg gga 413

<210> 4616
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102f07b1

<400> 4616

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aatcaggcag cctgtataca ctgaaatttg aaatgcttgt gtttggtgtt ttttcaaaaa 120

agtgacgtaa ttgtttgctt acaaccatgc gtatcatcat cactgtcaat caataccaac 180

aaaatgtgag cgacgggcgt aggtcaagcg ttcgtttcca tgtatgccgc cttattctta 240

ttcggtttga caaagaagac ggagcagaaa aagcttcttc gccaggcgtg gaaatggtcc 300

tcacgcctcg gcctccatct tctcgcactc ttctctgatg gactggaaca gcaccgacga 360

caggtacctt tcgccgaagc tcgggaacac caccactatc agctttcccg cgttctcggg 420

tctctgggcg acctttatgg cagcggccgc tc 452

<210> 4617
<211> 507
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102f08b1

<400> 4617

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gggtacatga accctgcacg ctccttcggc cccgccgttg ccagcggcga cttcaccaac 120

atctggatct actgggccgg cccgctcatc ggcggtggcc tcgccggcgt cgtctaccgg 180

tacctgtaca tgtgcgacga ccacaccgcc gtcgccggca acgactacta agccagccat 240

gggaagatca ttcggtcttt ggtttccata atgtcttcgg caacataaga agtgcgtacg 300

tggtggtcac tctcaggatt gtctggatga tgtgaggaac gtcatgttgt ttggttccga 360

tcgaaagccc gcgaggctgt ggcacttgga tgatgcatgt ttctgtatct gtactgtgat 420

ggatgttggg aagctggtgg ggtttcaaga ttcttcagtt gagtttcctt atgcgattca 480

ataagagcat cattgtttag tgcattc 507

<210> 4618
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102g02b1

<400> 4618

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gctaggctcg gaggtgagcg aaaatgccgg tcagcaggat cgccgtgggg agccaccgtg 120

aggtgtacga ggtgggcgcc ctcaaggcgg cgctcgccga gttcatctcc acgctcatct 180

tcgtcttcgc cggccagggc tccggcatgg ccttcagcaa gctgagcccc gacggcgcgg 240

cgaccccgc cggcctcatc tcggcggcga tagcccacgc cttcgcgctg ttcgtggcgg 300

tgtccgtggg cgccaacatc tccggcgggc acgtgaaccc ggccgtgacc ttcggcgcct 360

tcgtgggcgg taacatcacc ctcttccgcg gactgcttta ctggatcgcg cagctgctgg 420

gctccacc 428

<210> 4619
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102g06b1

<400> 4619

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cccaccactg gtgggggggtt ttggagctga ccccttaaga aaacaattct tcgattgttt 180

gctagatacg ttatgagacg gacctgttta aggggccggt ccatttctga agctaacaaa 240

ctttaagtcg ttgatttgcc tgcgattgga agacgtcgac actggatctg ctctcgttaa 300

tttcagtgca tttgcggctg tttgtattgc 330

<210> 4620
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102h01b1

<400> 4620

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ccttcatcta caaggccatc aaggagcacc gccggagcag cagccgggcc gcctaccggg 120

gcgcggaggc ggaggacgac gtggacctcg gcgacacgga ccagaggcgg cgctggctgg 180

agcaggagct gcggtcaccg ctcaacgccg ccgccgcccc ggcgtcgaca caggcgcacg 240

ggcggaaccg gtcgctggag gagctggccg gccaggtggg gctctcgccg ggccggcggc 300

tgccgctgcc caaggccagg agcgttcgcg ccttcgcctg catcggcgcc ggcgccgcgt 360

gaccgccgaa cacgtacgtg ctt 383

<210> 4621
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316102h04b1

<400> 4621

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ggttggtgca actcggtgta gccatgggta aaacgatcgt atacatggga gcatggacaa 120

ttgcacagaa gacacatgcc gcattggatc tgctcttcaa tgtgtggatc atggtgctgc 180

tctatacgtt tgcattggcg atcatgggac ggtgggcaaa gaggccagtc atactgctgg 240

tcttgttgcc ggttgccttt acaatagttt gcctagtata taatggtgct catattttac 300

ttgttagtta tcttacattt tagccaagtg atatagtaga aaccactgta tagtttagat 360

tttgtagaaa gctgggagcc aaatatgctc cgtgtattca atgaaccatt gtaatacttg 420

tcctttgaac cttaatatag aatggt 446

<210> 4622
<211> 466
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316102h06b1

<400> 4622

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ggcgaccatg gccgtggacc tcatgggctg ctacacccct cgccgtgccg acgaccagct 120

cgccatccag gaggccgcca ccgccggcct ccgcagcctg gagctcctgg tctcctccct 180

ctccggcgcg gcgccgtcca aggcgcccca gcagcacccg cagcagccgt tcggcgagat 240

cgccgaccag gccgtctcca agttccgcaa ggtgatctcc atcctcgacc gcaccggtca 300

cgcccgcttc cgccgcggcc ccgtccagtc ggcgccgtcg ccgccgactt ctccagcacc 360

ggtcgctcca cctnctcccc caccttttgac cgttgtgggc cggtggtggt ggccgacccg 420

ctcccgcagc cgcagagcct gacgctggac ttcaccaagc cgaacc 466

<210> 4623
<211> 303
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103a01b1

<400> 4623

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ttcgtgttgg ggcgtgaggt gtgggcgcgt gcgtgtgtgt atgtatgggt cgcggtggtg 180

tgggaggtgt gtccagtacg tgcgccggcg tgccattctt tgtgttggag atcatgtact 240

tactctcttg ttcttgcaat gaatgagacc atttatttga ttctttctcc ccagcttaga 300

aaa 303

<210> 4624
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103a02b1

<400> 4624

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agccccccat tctctaaagc tctcagtcag gggtgttcct cggtttcgga tgaaatcggg 120

gcgggttgac aatacttcac acgccttggg cgcgttgttg cagtctgtta gatttgaaga 180

actgccgtgt ttcattcctg aggaattttg tctttgctcg gtgtagtgcc tgtccgttga 240

gccacacttc tcagtaataa ttcaagctct gaaaattccg aacttgattc aaaaaaaaaa 300

aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaatat aag 343

<210> 4625
<211> 191
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103a05b1

<400> 4625

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cgaccagtga atctgacaag tcaccgtgct cagcggatcc gacggccgct acgttcttcg 120

acctccacac cgccgactgg ctcatgggcc taggagcgca cctcgacaga tggacctaca 180

tctccggtga t 191

<210> 4626
<211> 171
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316103a06b1

<400> 4626

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tgtttgaatg atattttgca agattcttat cgctgtcaac tcttttgatt ttgtgagctt 120

gaagaccatg tttcgttgca accaatnaaa aaaaaaaaaa ataacaggaa t 171

<210> 4627
<211> 327
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316103b01b1

<400> 4627

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tcatgcactc gtcagttgct tgacatgtat ggtgtcgttc ttgaattttc agctacatat 120

aatggtcggt tgtgtgagtg aatgggagtg tgttcatgtg tcggtctgtg tgtcgactgt 180

cactgtgagt caattagcta aaagaagtgt gatgtgtggg ttcagcgagg gagtaacagt 240

cactgaataa gaatgtaagt gtcctatcat atatgtatgt ctaaaatagt aacatgtaac 300

atgtgttgct ctttctttca aaanaaa 327

<210> 4628
<211> 487
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103b03b1

<400> 4628

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catgccaatg tgtcagttca aggagcatca aagggaatgc aatgcaagtg aagaccatgc 120

acaaactgac ttctagttct gttgatggaa ggagtagccc tgctggtgag gaaattcatc 180

atgcgtgtcc actagggaac taccctgcc aagggatgtt ccacagttcc atggagagca 240

cagaagaaga aggtggagga aactaactcc cgttattatc attgaaatag ctgaagataa 300

gtcatagtgc gagatcatgc atgtgcttgc tatgtaactt ttatcttgtt ttgaagactt 360

aatgttcaag tacgtgtata ttgtacttct aaaattatta tatttataaa taagagtctt 420

aaaaactcta ttgtaaggct acttttcttg tggtgaagtg atgttaaaaa cttttggatg 480

ctaggac 487

<210> 4629
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103b04b1

<400> 4629

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cgttcaattc gaatatatat actcgatgaa ctgtatcggt tatcaaatgg gtgcatctgg 120

agaatatagt gactgaatat caggtg 146

<210> 4630
<211> 66
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103b05b1

<400> 4630

gctggttccc cgggggcgcc ggcccggact gccccggacg acccacgcgg acggttctag 60

accgtt 66

<210> 4631
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103b06b1

<400> 4631

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gtgaaggcgg cgaaccgaca cgaagtactg ctaaaagtgc tggcagtcgc agacggagag 180

gaactgctcc gacatcttcc gctgcttcgg cgctcgcatg cagcgcctgg accaccggtg 240

catcggcctc gacccctgag cggccctccc tgcgtcagcg acccggcgaa tccgacgctc 300

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agagaattca tcagaaaaga aaagaggaac 390

<210> 4632
<211> 73
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103b10b1

<400> 4632

gacgatttgt gacagttcaa cctgcgtgga caagtttggc tatgcgtgca gctacgcgac 60

cgtgaggtga att 73

<210> 4633

<211> 414
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316103b11b1

<400> 4633

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acctcatgcc tntcaagtag ccccacgaga gccgactcca gaggttcctc gaggaggaga 120

accacgtgga ggacaacagg aacgactcca ggtacctgcc cttcggcgtc agccgccgga 180

gctgccccgg catcatcctc gtgctcctca tcatcggcat caccatccac cgcttcgtac 240

agaacttggt gctctggccg gcgaccggtc aggacaagct tgacacgact gagaagggcg 300

gacagatcag cctgcacatc atcatgcact ccaccatcat ggccaagccc agcgtgttct 360

agagcagcgc cctgcctgac gaacgtgctc ttgaattatg acttccagca tttt 414

<210> 4634
<211> 546
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103b12b1

<400> 4634

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gctcgttatt gatggcgacc gagcgaggcc agagcgatct gttcctcctc gacgcgacgc 120

tagtgctctc cgcctcctga gcgggcgacg ccgacttgaa gtactgcaaa aagggtgcc 180

actatcacat gaaggtgagc ggcgtggaga tcgtcccctg accccgtcgt gcgcggcgag 240

cccgccacct tcaagatctc cgcctccacc gataaaacca tcaccaaagg gaagctggtg 300

gtagatgtgc ggcacttctt tgtccacgtc gattcagaga ctcacgactt gtgtgctggg 360

actccctgtc ccgcaacggg cgaattcgta ctagccagcg aacagacttt gccatcttac 420

accccaccag gttcttacag tctccagatg aagctgctgg gagacaagaa cgaggagctg 480

acctgcatct tgttcgggtt cagcatcggg ttcgtcgcac ctgtcgccat tatgtgaacc 540

aaatat 546

<210> 4635
<211> 522
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316103c01b1

<400> 4635

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tcaaggaggc cttcagcctc ttcgacaagg atggcgacgg ttgcatcacc accaaggagc 180

tcggaaccgt gatgcggtcc ctcgggcaga accccacgga ggcggagctg caggacatga 240

tcaacgaggt tgacgcggac ggcaacggca ccatcgactt cccggagttc ctgaacctga 300

tggcgaggaa gatgaaggac actgactcgg aggaggagct caaggaggcg ttccgcgtgt 360

ttgacaagga ccagaacggc ttcatctcgg cggcggagct gcgccacgtg atgaccaacc 420

tcggngagaa gctgacggac gaggaggtgg acgagatgat ccgggaggcg gacgtggacg 480

gcgacggcca gatcaactac gaggagttcg tcaggtcatg at 522

<210> 4636
<211> 564
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316103c03b1

<400> 4636

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gtgaaacaag tttcaaacaa gtacagaagc tctgcatgcc tttcatcagg ttcaagaaag 120

atgaagcaag gaatgttggt ccccaggctc taaatttgaa gcttcctttt ggtgaaataa 180

atgtgcttga ggagaacctg gagctgatca gaaggcagtt gggtcttgag catgttgagg 240

tcctgtcggc atttgatgga gctgctcgtg ccaaagctgg aaagcatgct tctctgctgg 300

acaagaatcc gccttcccct ggtgagccgg ttgcaatatt catgagcaag caggagtttg 360

aagcgcagaa ttaagcccag attaatcttc tcacagaact ttgttgaggt gttttgcaag 420

gcgtggtatc gactggttgg tgctcctgtt gattctagca tgaggcgcct attgggaaaa 480

tgaaaggagc cttttcttca gcttgactgc agatgattga gaaggaattg gtttccaagt 540

tttgccagtt tgttcttttt agat 564

<210> 4637
<211> 481
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030e12b1

<400> 4637

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cccgcggcgg gggcgagtag cacggctgcg atcggcggcg gacggatcgg cggcgccgca 180

aggcggcggg ggccaccatg tctgccgtag tgtgcggcaa gaggtcctcc atcttcgccg 240

acgagctcat cccttcctct acgccttccc ctccccacca ccacccttcc aagcgggccc 300

gctgctcccc gacccgcgcc ttcgacgacg ccgtcgcggc ccaccggcgg gaggcgctgc 360

tccaccacct tcgttccctc ttccctcaat ggatccccag ttgcttgaaa gagctcttga 420

gcatctggag atgatttgga ttttgcataa ggagtttgat gacctgcgct ggagtcagct 480

g 481

<210> 4638
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030f01b1

<400> 4638

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ggctgacatt gtccaggtgc agttccgaag ggtgagctgt gacagggccg gcggcattcg 180

gttcaccatc accggcggcc ccaacttcct ccaggtgctg atcaccaacg tggcagcaga 240

cggcgaggtc gacgccgtga aggtgaaggg gtcgaagacg gggtggatac cgatggggag 300

gaactggggg cagaactggc agtgcgacgc cgaccttcga gggcaggctt ttgtgttcga 360

ggtcaccgga ggaaaaggca ggacgatcac aatgtataac gtcgcgcctt ggactgga 418

<210> 4639
<211> 405
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316030f02b1

<400> 4639

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atcctgaacg tgcgggtggt gggcaccggc gagcgcgtgg tggtgctgtc gcacggcttc 180

ggcacggacc agtcggcatg gagccgcgtg gtgnngtacc tcatacgcga gcaccgcgtg 240

gtgctctacg acctcgtttg cgcctgcagc gttaacccgg accacttcga cttacgccgg 300

tacaacaacc tggacgccta cgtgacgacc tgcnnnncat cctcgacgcg ctccgtatcc 360

cgcgctgcgc cctcgtcggc cactccgtct ccgccatgat cggga 405

<210> 4640
<211> 260
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030f05b1

<400> 4640

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gctattgcca cgaccttata ttgaacccat agtaatatcg tctcgtgtgc ttaaatgttt 180

actagtccga ataaaactgg atgtctgttg tttggttcag aaataataaa gatggacggc 240

gtttctaacg aataaacaaa 260

<210> 4641
<211> 422
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: uC-tsro9316030f07b1

<400> 4641

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gatcaatgga cttgccatcc ttcaccattg caacgctcgg cttaggagca ggagcgcttg 180

ctgccgagac ctcgatgacc cttcccttgt cccggctgct gctcgtgtac gtgccggtgc 240

cgctcgacaa cgcccagtcc gtggagctgc cgccgttcga cacgtagtgg aancggttaa 300

ccggtggcgc gaggggcant tgatcctgca gtattcgaac cacgctgctt attttgtgtc 360

gttcccacgg cttgtattgt acgcaccata gcgccacctt acacatgggt ttcgcctttt 420

tc 422

<210> 4642
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030f09b1

<400> 4642

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gggtggctca aggacatgcc cgccgtggcc taattcctct ccctccctcg tcggccggtc 180

cgccgggccg gagctgcagg ggaaggaagc aaggaaggaa gagcaagaag tggttttgacc 240

gtgattcatt ctttatagtt tgcattttgc aggagaagca tccacatttt ctctctcggc 300

cataagaatt tagtaaacct tcatgtcttg ttaagttccc gatacatgtt tgcgtctgta 360

gatcttactt ataatcaagt caaatcctcg ggcccctgtg ctgcctgagg aggttttttcc 420

tttgttaa 428

<210> 4643
<211> 368
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030f11b1

<400> 4643

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gggattgaaa tttagaggag aagcctaggc atgcaattca gctagcaatg gcggacatgg 120

tgacggcgct cgtctttttc agggcaccgt ggtgatcttc agggtgagca gctgctgcat 180

gttaaacaca atgaaggcgc tcttcgcgca cctgggtgtg agctcgacga tggtgcacga 240

gctggacaag gccccccaag gcgaggaggt cgagagggcg ctggccggta tggtcagcca 300

aagcccagtg gtgccggcag tattcatcgt aagcgagctt gtgggccgca ccgacacgat 360

catgtcgc 368

<210> 4644
<211> 286
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030g01b1

<400> 4644

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ggtagtgctc atgcaggatg gccggcgcga gagtgtgaga gacgccttgt tgatctggtc 120

atgtttggtg tctttcttcc ttgttttgct tcattggtcg tcttggatcg agttggtagt 180

ggtctggtgg tgaagttggt cgcgaactct gttaatttcc tctagttcgg catatgatga 240

acttactttg gtggtgaaat tggtcatgaa attctgttga tttcct 286

<210> 4645
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030g03b1

<400> 4645

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cggggcacat cgcccagtcc tggtcaccga cacaccaccg tgcgctcttc ctgtctacca 120

agattatgca agaacaagat tgatcaatca taagcctgct gggagatata ttatagcatg 180

gattttaaac tcagtgtact tgaaaccatt accaataatt tttcagaaga ccgaaaagtt 240

ggcagtggtg ggtatggaga tgtttacagg gggatgtata atggggatga gatttgcgtg 300

aagaagct 308

<210> 4646
<211> 177
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030g06b1

<400> 4646

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atactttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga 120

aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaagatag aacgatt 177

<210> 4647
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030g11b1

<400> 4647

cctcaacacc ccagaaatcc cacccgtctc cacccagata accacgagag atatttcgtc 60

cgccccgacg accgacgaac ggcagagaaa agtgaggtga tcatgagcac catggcgatg 120

tcggcgctga acccggacgc gcccatgttc atcccggcgg cgttcaagaa ggtggaggac 180

tactcgcccg agtggtggga gctggtcaag accaccgcct ggttccgcga ccactggttc 240

cgccagcacc agctctacga ggacctcgcc gacgacgtcg acgtggacga cgtcgccgtc 300

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tcggcccagc cccagcccga cttctaccac tacaaaccag ca 402

<210> 4648
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030h02b1

<400> 4648

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ccgttctttg gggtaaagtt cccggcggcc ggagccgggc gttcgccaag caagtccgac 120

agcgcctcgt gtgcccggtc ctcccccgcg ggcgggaccg tcaccccgaa gacccgtggg 180

acatgcatgt gctctccgac gaaccacccg ggctcgctcc gctggagcct gcacaaggaa 240

cgcaagcaga aggccccggc cgaaggcaga tgcatgaagg catcctaccc gtcttcggcg 300

ccggcgaagg gcacggccag cccgttcgcg caactgggtc ccatcggcag cagctgcgcc 360

aagggcacgg gccgtacgct tccacag 387

<210> 4649
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030h05b1

<400> 4649

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ccccgccccg gtcacgggcg gacgccgcat gtcctcctcc gcccacgacg actcctatga 180

gacggccaag tgggagaaga tcaccatcat tggggccgtc acctgcaccc tcctggcggc 240

gtggaacctc tccaagggcc acccccactt cgacgagccg ccggcctacc cctacctgca 300

catccgcaac aaggagttcc cctggggacc caatggcctg tttgaggtca agcacgacca 360

ttgagtactg aatagtgcat cataagaagt ccgtgaatgc ttcagtaaaa ttctctgttt 420

gtccagtggt tttttttat 438

<210> 4650
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030h07b1

<400> 4650

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aatcgccgag cagactatag ttcaggccct aacaacagca agagagcact ttgccaaatc 120

tctgcttatg tgacgtgtcc ctttctcgtg gacgaagatg gcattggacc aatgtgttca 180

tttcattgtc aaaggagaaa tgaggggaaa aggtccgaat ctgtgggtgt aaaattacgc 240

gttttcgttg acgttatatg attgttcagt tttacgagtg ctccaaagtt gtgtggacaa 300

agattgtgaa atgtgacc 318

<210> 4651
<211> 201
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030h08b1

<400> 4651

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gtagtgaaaa ggacttcttc acagaattgc gcggtctcgg tggtgaaaat ggggaacata 120

agtccattga cggcaagggc tggggagatc aggaacaact gtctgagggt gaacatcaaa 180

ccctattgaa gaatgagatt a 201

<210> 4652
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316030h09b1

<400> 4652

tgcaaggtca ccgtcacctc cgacggcgcc ttctacaata ggtacctcaa gtacttgacc 60

aagaagtact tgaagaagca caacgtgcgg gactggcttc gtgtgatcgc agccaacaag 120

gagcgcaacg tgtacgagct ccggtacttc aacatcgctg agaatgaggg cgaggaggag 180

gattagagtg cattgctata ttgtagtgct tgttgagttt tgatacttga tctgagtacc 240

tcctagttat ccacctatat tatgtggtgc cccgtggaac ctggatggtt taattggaag 300

aatccttata ttttgtctcc ccgactattg atccatatgt ctctgaacct agacaagtaa 360

tatgggagat tggtcctggt tttcaggtga aaaaaaaggc cccaaacaaa tagcctt 417

<210> 4653
<211> 176
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031a03b1

<400> 4653

tggtgagtac gtttttgttg gtatcgcctg tctagcagat atttggatgg cagatgcttg 60

atctttagac tgttgctttc gttgaagttg tcagcgcaga atttgttcta aaggagggag 120

gaatgtctgc aagttatgac aggacaagtt ataaatctaa aactgtcatg aactgt 176

<210> 4654
<211> 217
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031a10b1

<400> 4654

tggtggcagg ggagactagt tcatattgat ttcggattta ttttggagat ttcccctgga 60

ggtaacatgg ggtttgagag tgcacatttc aagctaagcc atgagatgac tcaattgctt 120

gatccatctg gaactatgaa gagtgacacc tggaatcagt ttctcagact gtgtgtcaag 180

ggatacctag cgggaaggag acacatgaat ggcattg 217

<210> 4655
<211> 180
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031a12b1

<400> 4655

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ctctgcgtga ccatgatcag gacgaggagg acaagaagaa gtgtggagca cgctgctgct 120

acctggtcac gctctcagca gtgcgaatcc ccagaagcat gcttggcgcg ccttctttcg 180

<210> 4656
<211> 389
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031b02b1

<400> 4656

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tggtggataa cactgtggag gtcaatggag atgagaagac cgacataggg atggtggttc 180

tgagaggaaa tagtgtggtg atgattgaag cccttgaacc aattgacagg tctcagtgat 240

attttggcat acctgcttat ggtttagtac ttaatagagt ttggtcaaaa ccgacgctta 300

tggaatcaag caaatngtat cctaatattt gtaatgtgag atttagcact tgctgtatag 360

tttggagttt gttctggctt tagagatgc 389

<210> 4657
<211> 365
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031b05b1

<400> 4657

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tcttcatctt tgtgttggtc atcgcgtacc actttgtgat ggcagacccg cagtatgaga 180

actgatcgcc ttttgtttag caatgagacc gtattatact cggagcaaat agggaaatgt 240

gttggttaat ggtaacagag tgcttgacag atctttttaa gtgcaattat ctggcattgt 300

gacttgaatc atgtttaatc tgttgaacaa gcgaactgtg gcgatttaaa agatcgttta 360

ctatc 365

<210> 4658
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031b07b1

<400> 4658

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aacaacaagg aggtggatgc cctggtggag aagatcaccg gcctccacgc cgccatcgcc 120

aagctgccgt cgctcagccc atccccagcc gtcgacgcgc tcttcaccga gctggtcacg 180

gcctgcgttc ccccgagccc agtggacgtg accaagctcg gcccggaggc gcaggagatg 240

cgggagggcc tcatccgcct ctgctccgag gccgagggga agctggaggc gcactactcc 300

gacatgctcg ccgccttcga caaccctctg gatcacctcg gcatgttccc ctactacagc 360

aactacatta accttagcaa actggagtat gagctcctgg cgcgc 405

<210> 4659
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031b10b1

<400> 4659

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ggtgaagtgg cgcgcgtggc agcgcgtacg tgcgtacgtg cgcgcctcca tggcatgcct 120

tagttgatca ttaaccatgc tctccgtata ctacctaaat aagggcgacg catggtgtgt 180

gacactatgt agctttcctt tcagctggta atgatgtgtg tggtgaccta ataagtctgt 240

gtgtggctta gtacgaaaaa tttgtgtttg ctgtactgat gaaatacaag gaatatgtac 300

caccgtgcaa aaaataaaaa aaattaaaaa acttaatttt t 341

<210> 4660
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031c01b1

<400> 4660

tgtacacaca gatccggacc ttgcggatga ggcttgtcat tcgttcacct gagattaata 60

aactccgtta gtcaatcatg gaacaacaac aagtcaagcc atctctcccc ccgtctgata 120

ctcctatgga taaccaggat tcatctccac ttcctgccgt tactactgct gatcctgttc 180

cacgtgctct ttcaaatgat tccgcgacac aggctgccag tccaaatcct gttgcccctt 240

catctccttc tgctccaacc tctgccacca cacaagatgc tgcaggacgc gaggcaccat 300

catccatgtt ttctacatca ggcttatctt cctgggcgaa aaatctgaaa atccctcagc 360

cttcttcagg tcaagaatca ccaacaggta aaaataccgt ttcccgtc 408

<210> 4661
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031c04b1

<400> 4661

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cagctggtga atgcccgcat gggcgacacc gaatggaaga ccgggatcaa cctgaggcag 180

gataggggaa aggatgggat cgtgagcagg gacgccgtct gtgatgccgc gaggaagctc 240

atggattcgg acaacgacac tggccaagag attaggaaaa tggctgcgca tctccgcgag 300

gcttcccttg gaggg 315

<210> 4662
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031c09b1

<400> 4662

ttccacctcc tccagctgcg cccccgatcc cagctgcatt ctgagcggat tccattccat 60

tagattctcc cgaggagcaa attgcctccc gagatcttca tctcgtttcg gattcctctc 120

gtctaattgg ttccggagcc aggcaagaag cgaaagagga ggaaaatgtg cccgctgagg 180

gtgatactca tcttcctctc cgccaccgtc gccggattct tcctcctaca gggccctaac 240

gccgacaccg actgtttccg tgaccgcgac cagggctcgg aatctcccac ggcccgcgtt 300

ccccttcatt ccaaggggtg gttcaagctg caaaactggg ttctggacaa cggtggacat 360

ggccagcggt cggtaccttt ggc 383

<210> 4663
<211> 53
<212> DNA

<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031d06b1

<400> 4663

aaccggaccg gaatacttgg gtttgtccac gcgtccgtag acctagaacg cga 53

<210> 4664
<211> 54
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031d07b1

<400> 4664

ggttgaccca cgcgggtacc acgcgtacgc ccacgcgtcc ggttctagat cgtt 54

<210> 4665
<211> 333
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031d08b1

<400> 4665

ggtgantatc tcaaccagga taacctcgtt tatgtttgtt atgcgaaaac aaaacataat 60

gtagcatatc ttgtcgagtc gctcgctcgc tggatgctgg ccgacactgg gcgtcgaccc 120

gacaacactt ttatttagcc cacgccacgc gccaccccgc gcaaagcacc ccacaccttg 180

tacgtagtaa aaagcagtag cactccagtc cactccactg gctgactaag catcacgccg 240

tgccacgtag gagcacatga ccgccgccgt ggacgctgac ccagccagct cctcctccgc 300

gcgcgccggc gcctcacacg ctgacgctgg cca 333

<210> 4666
<211> 394
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031d10b1

<400> 4666

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cccacgatgg gatggttaca aacttaaagt ccaagtgact ataaaagaaa caacaaaaac 120

atagtaaaat gtataaaatt acgcagcttt ccccccacca ctggtggggg gttttggagc 180

tgacccctta ggaaaacaat tcttcgattg tttgctagat acgttatgag acggacctgt 240

ttaaggggcc gttccatttc tgaagctaac aaactttaag tcgttgattt gcctgcgatt 300

tgaagacgtc gtagctgcat ctgctctggt taatttcagt gcatttgcgg ctggttttat 360

tgcaaaaaaa aaaatatcaa aaactgatat aatt 394

<210> 4667
<211> 464
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031d11b1

<400> 4667

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atccagagcc tctacggcgg caaccctaac ttcaagggcg tcacgccgcc ggccaccagc 180

agcgaggaga cccacagcgc cgcccccagc gcgctctccg ggccgtggag cggcctggcc 240

gtggcggctg cgctcgcact agctctgtcg tgctagttct tcttgggtcg atcgattcac 300

gaccattttt tggtttttac ctttttttaac gggcattcac tttgctctag gatttgtgtt 360

ggtgtataaa caatagtagt cattgggtgt gtaagatagt gtagatacgt gattggtagt 420

gcatgtatag agcggatcat ataggacatt tggtaaaaaa taca 464

<210> 4668
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031d12b1

<400> 4668

ggtgatcaat gatgagaata tttacctctt ccctaaaaat ggagggctgg gacccgaccc 60

aaaatcatcc gtcaaaattg gaggcggtga agggtccaac tcaatagtgt ttgcatccgg 120

tgaagatgtt gatcgacctg cgcctcaggt atatgttggg catcgcaatt gtgagactgt 180

gaagggtgtg acttttattg ggccaaatca tgaatatgtt gccagtgggt cagactgtgg 240

tcggttattt atttggagga agagagatgg gaaattttta cgggcaatgg agggtgatga 300

atgcatagtc aattgtattg agccccatcc tcatgctatg acaattgcaa gcagtggaat 360

tgataatgat gtgaagctat ggactccctt tgccgttgaa cgagca 406

<210> 4669
<211> 428
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031e01b1

<400> 4669

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cgtcggcgac catgtccggg cgcggcaagg gaggcaaggg gctcggcaag ggcggcgcca 120

agcgccacag gaaggtgctg cgcgacaaca tccagggcat caccaagccg gccatccgga 180

ggctcgctcg gaggggcggc gtgaagcgca tctcgggcct catctatgag gagacccgcg 240

gcgtgctcaa gatcttcctc gagaacgtca tccgcgacgc cgtcacctac accgagcacg 300

ctcgccgcaa gaacgtcacc gtcatggacg tcgtctacgc gctcaagcgc cagggccgca 360

ccctctacgg cttcngcggc taggcttcgt ctcgcccttc tgcatatccc aaaaagttga 420

tatgaatg 428

<210> 4670
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031e06b1

<400> 4670

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gaagcctctg agctagctgc ttgttatgga tcagttttgg gaatgttctt cagtccactt 180

cttgttctac tgctttgttt gcttagagca gctgttttag ctctaagcag tcgtgctcct 240

tggccaatac tagttgtaaa aggaatcgag tcactcctaa gtttgttaag tcttgtcatt 300

tctctcgtta tgctgttagt gtttgccggc aatctgtcgt tcatcctgta aaataacgga 360

ttgtatggtt caatatgtac tttaaccagg tctcaaaggt gaaaaaaaaa tctgtttgcc 420

cttaaaaaaa acaaacaatt gcacatcctt aggg 454

<210> 4671
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031e09b1

<400> 4671

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gaagaaaatg caaccgtgtt tctatggtgc ccgaatgctg gcaggctgca ttcgtaattg 120

tgtttcgaag gttttgtaac gatatgtcac agcactacat ttttaccaaa tatgtaaccg 180

tgtgaaacta ttggctccaa ataacatttt atttataaat agattgcaag aaaaaaaaaa 240

catctccctg aaaataatta aaaag 265

<210> 4672
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031e10b1

<400> 4672

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catagcaacc atcgaggaag ggccgcagtg gctgagtcta tacgatccct gagcctacaa 180

ggatggaagg aagcggcagg ggcaccttga caccgagcaa tgcagatgc 229

<210> 4673
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031e11b1

<400> 4673

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caccgagctc cgcggcgggt tcggccccgc cgtcgacact ttcgtcggct tcttccacgc 180

cgtcgactgg aaggaacctt ggttgatcgg catgataagt ttccatgcca ttctgctact 240

ggtaaccatc atctccagga ggaacatcaa tttccaactt atcttgtcag ccttaacatt 300

ttctggtgta ttccttgccg agaaactaaa cacgttccta ggacaaaact ggaagagctt 360

ctcaagccag aattactttg atccccaagg cctcttcatc tcggtcatgt ggtctggccc 420

cctgcttctg attacgatac tt 442

<210> 4674
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031f01b1

<400> 4674

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ctagcccgag ctcgcaacca tggctagggg tttgaagaag catctgaaga ggctcaatgc 120

cccgtctcat tggatgcttg acaagcttgg tggagctttt gcccccaagc catcatccgg 180

tcctcacaag gccagggagt gcctgcctct gatcctcatc ctgaggaaca gactcaaata 240

tgctctcacc taccgtgaag tgcaatctat ccttatgcag cgtcatatta tggttgatgg 300

aaaggtccgc actgacaaga cctaccctgc tggtttcatg gacatcattt ccattcccaa 360

gactggtgag aactacaggc ttctgtatga caccaaaggt cgcttccgcc ttcactctgt 420

cagggacgag gatgct 436

<210> 4675
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031f03b1

<400> 4675

ccggcaaaaa agcgagagag cgggggaaaa aaaaaagaac cgcccgaagc agcccgcaga 60

cccagaagag agcgagaccg ccaaaagggg ggaaaaaggg ccgcccgggc gacccaggcc 120

agcggaggag ggcacgacga aagaggaaaa gagggccccc ccccccccgcg ggggcaacaa 180

cagaac 186

<210> 4676
<211> 470
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031f10b1

<400> 4676

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aaggacgcgt cgggcaccgt ctccgtcgcg gacctccgcc acgtcctcac ctccatcggg 180

gagaagctcg agccccacga gttcgacgag tggatccgcg aggtcgacgt cgcccggac 240

ggcaccatcc gctacgacga cttcatccgc cgcatcgtcg ccaagtagtg gattgatccg 300

tatcccagcc cgctcagact tcttcgtatt taataactcc ttcttcgcgt gattttaatt 360

tcgatcatct gatctgatct gctgcgcttc tgttttgtgc tttggtttcg gtgggtttc 420

ccaactgccc tagggtttgg gataaaaaag gtgtgattat gggataaaaa 470

<210> 4677
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031g04b1

<400> 4677

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ttcctaatag tttgttggtc gaatttatag gattcttaat cgacagatca ggaatcacct 120

ccccattcag ctaagctgca tgtcttttgc ttatattatg tcctttcttg tacttacatc 180

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ctgaacctgc 250

<210> 4678
<211> 497
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031g05b1

<400> 4678

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ccggcaaggt cgagtaccgt gtcgccctcg acatccccac cgccacctac tacgtgcgcg 120

cctacgcgct cgacgcctcc ggcacgcagg tcgcctacgg ccagaccgcg cccgcctccg 180

ccttcaatgt cgtcagcatc accggcgtca ccacctccat caaggttgcc gccgccgtct 240

tctccgcctt ctccgtcgca tccctcgcct tcttcttctt cattgagaaa cgcaagaaga 300

acaactagat gtggagatcg aaaccgtggc aaagtttgtt ggctttctct ggccggtcgt 360

tttctctcta aatgtaacag tatcagtacg gaccagcacg tacgtacgta cggtgcaaac 420

tgtacggata aatgtttcgg gtgcatacct ccttttggt tgtgagcctg taatgactat 480

gaatgaaata ttttgat 497

<210> 4679
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<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316031g06b1

<400> 4679

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aaaaaaaaaa tttaaaaaaa aaaacaaaaa ataccaaaaa aaaaaagaaa aaaaacaaaa 120

aacaaa 126

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<211> 61
<212> DNA
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<223> Clone ID: uC-tsro9316031g09b1

<400> 4680

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<223> Clone ID: uC-tsro9316031g11b1

<400> 4681

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cagagttccg ctcgttcatt caaactcttg caggaaagta caatgggaat acatatcatc 180

tgatttcaaa gaactgcaac cattttacgg atgatgtctg taagaacata accaaaaaac 240

cagcccctgg atgggtaaat cggctagcaa gagtgggtta ctttttcaat cgccttctac 300

caaaaagcaa ttaagactct actgttactc acggagcaac ccatcctgca ttctctgatg 360

atgatgtgga atcatcaggt tcattcctta atggggaccg tgatatggat gacctggacc 420

agaacctgct accagccgca ggcactga 448

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<211> 397
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316031h03b1

<400> 4682

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cttgcaaact gtatgaatgc actcgaatca aaagatcagg aactgcttaa tctgcagagt 120

gctccttgga cagtactatg ccgagagtga agcaaaggag cgacttgggg atgatttagc 180

tatggctaga gaagcattgg ctaaattatc tgagtcactg aaagaggcaa atcaaggaat 240

tgaaatttca agaagggaaa aggacgaagn aagttgccaa acttactcaa gccgagaaga 300

tgctagcgga cgggaagcgc tacctgcaga agcttgagga tgacaattca agattaaagc 360

atgcgctaga acaaagcatg acaacagtca ataggat 397

<210> 4683
<211> 371
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 4683

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aggcactgaa gtttgcggta ccaccaagtt ttctgacctt ggagctgatt cactggacac 180

ggtcgagatt gtgatgggcc ttgaggagga gttccagatc agcgtggagg agacgagcgc 240

gcaggcaatt gcgacagttg aagatgctgc cacgctcatt gacaagctng tctctgcgaa 300

gtcatcttga agggaggtcg taaatcgtaa tgattggagc ttcgaagcta gtattcttac 360

cttgngctga t 371

<210> 4684
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032a01b1

<400> 4684

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aggccaaggg ccggatccgc aagggcgacc tcacctggca gatcgccttc ggctccgggt 120

tcaagtgcaa cagcgccgtg tggagggcgc tccggtcggt caacccggcc aaccccgggg 180

acgtcgccgg caacccctgg gccgacgaga tccaccgctt ccccgtgcgc gtgccaaact 240

tctcagccat cgatcctcca tccactttca gcgacaccac ccagcaataa ggatttctag 300

tggtcacgta cgtacgtctt ttggtctgta gctagcatta tactgtatta gcgagctgct 360

tggttggggt tgcattggta ttaagtagag tcagtcgagc taggtttgct t 411

<210> 4685
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032a04b1

<400> 4685

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cacgcgcgtt tttcgcgcgc gccactggct gataagcggg aaggtttggc caccatgtgg 120

gcagcgccat ggggtccgct caggctaact aaaatgtggc tgcaatgtgg gcaccatgcg 180

tgtgtgggcg tcataattaa ataagggtcc acagcctgaa ggagtgaata atcgcgagac 240

cattaattgt tggggctgcg cacgatctga gtgggcctgg tgaatggata tggatcaaag 300

cagagatgcg gcatactaga ggtgggggca gaatcccta 339

<210> 4686
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032a10b1

<400> 4686

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atgaggcact ataatcgtca agagtccatc catgtggcta ttgagaagag agaagggcgg 120

gaaagaagtg aagaaaggga catgagcatc aaggaaagaa gaaaccgggg gccaaaactt 180

aagatggagg ggatctactt gggaagaaag aaggaaagga gaagggccaa atcagaaaag 240

cggcagacta gaggaggggt caaaatccct agcagcagcc ccgatcccct ttgggcctag 300

catcttcatc tctctgcccc gactgcttct ccacctctgg ccgccgccgc ggccaggccg 360

gcatgtgggc gcgcgaccgc gccaacaggg ccaccc 396

<210> 4687
<211> 149
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032b02b1

<400> 4687

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tagctctagg tggtttgctg cgtctgccac aatgagcgta cttctgggga aaagctgtct 120

cgaacttata aataagcatt atttttcct 149

<210> 4688
<211> 143
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032b03b1

<400> 4688

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aaacaaaaaa aaaaaaaaga agataaaaaa aaaaaaaaaa aaaaaaaaat aaaaaaaaaa 120

agaaaaagaa aataaggaag agg 143

<210> 4689
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032b04b1

<400> 4689

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agtggccatt cttcagggtc accatcgatc ttgttgagat ggtgttcgcc aagggtaatc 120

ctggcattgc tgccttgtat gacaggctcc tagtttcaga ggggctacag ccactgggtg 180

agaagctgag ggccaactat gaggagaccc agaagctgct tcttcaagtt gctgagcaca 240

aggatcttct tgaaggtgat ccctacctga agcagcggct acgcctacgt gacgcgtaca 300

tcaccaacat g 311

<210> 4690
<211> 70
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032b05b1

<400> 4690

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cgtacatgga 70

<210> 4691
<211> 486
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316032b07b1

<400> 4691

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ttatgacatt gggtctacca taagggacaa gatcatccct catgctgttt cttggtttac 180

tggtgaggct gtgcaagctg aggatttcga tgatatggaa gatggtgacg aggatgacga 240

cgacgatgat gatgatgatg aagaagatga tgaggatgat gaggacgagg acgaagacga 300

tgatgaagat gaggaagagc taagcaagcc gacgaagaag gtggcgggca aaccgaaggg 360

acctgcaaag ggtggcgcac aagggaacgc cgagcaaccg acggagtgca agcagcagta 420

gactttgtgg atgcagttgt tgcagtattt tttccattga actgcccagg gngaatgagc 480

ttttat 486

<210> 4692
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032b11b1

<400> 4692

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tgactcaaca attgacctgt gcttccatta tgagattata acttcgagct gattgtagtc 180

ttaatgtttg atagaaatct ccaaatatga taagtttcct gttattacca atgtcatgtc 240

agttatgttg ggtgagtcac aaaacaccag ttgacaccgt tcttctgtgt gggaacacgg 300

catgtatctt gtggg 315

<210> 4693
<211> 485
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032c02b1

<400> 4693

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ttcgtcaacc tgcacaaccg cgcccgcgcc gtggacggtg tcggcccggt ggcgtgggac 180

aacaacgtgg ccaggtttgc gcaggactgg gcggcgcagc gcgccggcga ttgccggctc 240

cagcactccg gcgggccgtt cggcgagaac atcttctggg gttccgggca gtcgtggacg 300

gccgccgacg cggtgaagct gtgggtggac gagaagcaga actaccatct tgacagcaac 360

acctgcgacg ccgcaaggtg tgcgggcact acatcaggtg gtgtggcgca agtccacccg 420

catcggctgc gcgcgcctgg tctgcgcccg gaaccggggc gtcttcatca cctgcaacta 480

caacc 485

<210> 4694
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032c03b1

<400> 4694

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ggtgctggtg gccaaggcgt ggcagagccg cacccgcgcg gcgggcttcg aggaggactc 120

catcgtccac ctctgcttcg ccatgaacgc ccggcccctc ctgcacgcct cgctcccgcg 180

cgccggggcc gggttctacg gcaactgcta ctacatcatg cgcgtgtcgg cccccgccgg 240

caaggtggcc ggctccacga tccccgaagt ggtgaaagat catcaaggac gggaagaggc 300

ggatgccgtc ggagttcggg cggtgggcga ctcgtgaggc cggcgccgac ggtggcgtgg 360

acccgtacca gatcacgtcg gactaccgga ccctgctggt gtcggactgg acg 413

<210> 4695
<211> 103
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032c05b1

<400> 4695

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agatgaaaaa aaaaacatga ccctgaagag ttcgtgtccg tac 103

<210> 4696
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032c06b1

<400> 4696

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catcaattgt tgttcttgcg gggcatgtgg caggcggttt ttgtacattg gcgattattc 120

ttcccaagtt gtaaccctcg aaattctagt accagaaata tctgattgtt cgtcttcggtt 180

gcaaggtcag caagtatgta cgacctagaa cacttgccat cacacagaga aaaaggaaga 240

taataaacac tgatgcgtga gcttatgcc 269

<210> 4697
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032c10b1

<400> 4697

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gacgaagcca gcaatgtgat cattctgtat gttgatgaca gtgcctacat gcttgatctt 120

aagtcgatgg aatccacaaa acttgatgga agccgtttga tgaattcctg tcacccattc 180

accagtttct atccgccaga catggccatc taagaagcat tgatatgtgc acacggacac 240

aggggtacgg atacacggaa tacggcattt tccagaaaca accatacata aataaataaa 300

gtacagcatg taatgttgtg aggacaaaag tatatttgta agatgtgcga tcggttgttt 360

tctgccttca tttccacgtt tgtatatggg tgagcttaat gcagctgacg ctgcatgttt 420

atgtaagtag atatttcagg aaaaaaagat aatacaatgc agcatgtaat atggacat 478

<210> 4698
<211> 471
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316032d02b1

<400> 4698

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ggaacctgga ccaggaccac tgcctggagc tcttcacggg tcagaagtga tccgtgtgcg 180

caagcttgcc tcatctacgg ttgggtgcag tggacatcca cgacgcagca ttactcaaat 240

aaaaaatgcc cccaatgtgc ggggttactc gagttgtttg aacttgtttt tgcttcagca 300

caacgtatct atcgatgttc atcttgtatt gtattcccta tatactagta cgtgtgtgtg 360

tgtgntgttt gtttattaat tgtgatccta cttgtaaaga attatggtac actggtccaa 420

gaggaaacgg ctgtgtaata aatttgctgt cgaggagctg agctaactaa a 471

<210> 4699
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032d03b1

<400> 4699

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cgagccaaca aggccaagcg ttgggcgggc cgtgtgtgca gatgccgacc atcatcatca 180

aggtggacct ggattgcgcc cgctgccacc gcaagatcga gagggtgctc gacaggatca 240

gagagaaagg cgagttcgtg atcgacgaca tcgagtacga tgagaagaac aacaaggtga 300

tcgtgaaggg ccccttcgac gcggacaagc tctccgacaa gctctgctgc aaggcctgca 360

agatcatcaa ggagatcgag atcgtggag 389

<210> 4700
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032d07b1

<400> 4700

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gctggtgttc ctggatcggc aggaggagcc aggacgcgac ggtcgtgttg tatacatctt 180

ctacagatag attgtgatca tcagaatatg catgcagcct gtgctgtgct ccctatgcat 240

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tgctgtggta gcagaatggt cggt 324

<210> 4701
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032d08b1

<400> 4701

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aggaagtgat ct 72

<210> 4702
<211> 334
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316032e04b1

<400> 4702

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atcaggcatt cttacattgt gcacctgatc tctaccatgt agatggaatg gtctatgtgg 120

gcttgcccga gattgcccct ctctgcaggt gaattgggac tttacaaact cgactttttgt 180

gcttccataa tcaatagtcc tgattgaatg agttgtatcg gttatgtaaa ctcgcttcat 240

gcgtgactta ctgtgcacat ataagctatg ctatattgtt naaaaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aannncaaaaa caaaaaaaca caaa 334

<210> 4703
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032e05b1

<400> 4703

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cctagttacc cgatccgttt gtacctgtct accaaaatgt tatcgctcgc tcgctcccga 240

gtatcctaga tctcgctccg tcgcgtaggt tccgagatgt tcaggctacc gatagatgtg 300

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tgaaatgaaa ac 372

<210> 4704
<211> 169
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032e06b1

<400> 4704

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cgaacaaaca taaaaaagca accaccgcat gcgtatgcgg tgattgacct agtgttatca 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaa aaagaaaaa 169

<210> 4705
<211> 242
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032e08b1

<400> 4705

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gcggccgtcg ttgagcctgc cgtgtaccgc gggatcgtcg ccgccgtggc tgaggaatga 180

tacccaacca tgccactgcg aataataaaa atcaagctgc ttaattagca tgctgtcaac 240

tg 242

<210> 4706
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032e11b1

<400> 4706

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agagcgcacg ggacaaggct gccatggcgg aagacgcggg gccgatggtg ggaggcatca 120

aggactcgcc gatgggccag gagaacgacc tggacgtaat cgcgctcgcc cgcttggccg 180

tgtccgagca caacaacaag gtcaatgcca tgctggagct ggagaatgtg gcgaagctga 240

agaagcagac tgttggtggc acgatgcact acattacaat tcgggtcact gaaggtgggg 300

gcaagaagct ctatgaaact aaggtgaggg agaaaccatg ggagaacttt aagcagctgc 360

aggagttcaa gccggtggag gacgctgaca tggcatg 397

<210> 4707
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032e12b1

<400> 4707

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gcacgccggt gtaagatttc tttcttttt tttgcgggaa accggtgtaa gatttcagta 180

gcatcgtaat gtcgtctttt agatttccaa aatcgtaatg tctcactaag ctgcatgacc 240

atccaagaga aaaaactgaa agaggagctt gatgacacga gagactaaac ttgaa 295

<210> 4708
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032f01b1

<400> 4708

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acattaagct ccgtgccact ggaggcaaca agaccaagac acctggacct ggagctcaat 180

ctgctctcaa ggctcttgct aggtctggga tgaaaattgg gcgcattgag ggacgtgact 240

gcagatgcca ctgacagcac ccgtcggaag ggaggaagga agggaaggag gctgtaagct 300

atcttccaac tctactggcg gctatccaga aacttactcc tctctgggca gctctgctga 360

ttctatgaat gtcatg 376

<210> 4709
<211> 496
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316032f02b1

<400> 4709

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gcttgccgtg ccttcttccg ggtgcaccgg aggctggcat gtgagcaggg atgcttcagt 180

gatgcagaag aaaaaaggca agtcttatcg gcaagggaag gctacgcctt tcttccaggt 240

ctccctctct ccatctaaat ctgtgtttgg aggagggggc tacngttagt ttacccaccg 300

gtttactgcg tccttgtgag ttgtgatcat tatcatgcac ttgtcaagtg cttggcaagt 360

atggtgttct tgaaattttc ggttacataa gggtcggtgt gtgagtgaat gttatggtgt 420

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gaagtgtgat gtgtgg 496

<210> 4710
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032f06b1

<400> 4710

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cgtttcagtg gaggtgtctc ctaggctggc aaatgacacc caaggaaccg tcgaagctgc 180

gaagtggtta cacaaagtgg tcaaccgccc caatgtgtac ataaagatcc cagctacagc 240

agaatgtgtt ccttctatca aggaagtcat tgctaatggc atcagcgtca atgtcactct 300

tatcttctct gttgcaagat acgaggctgt gattgatgct tacctcgacg ggcttgaggc 360

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tgacagtctg atcgacaaat gcttgagaag attggaaca 459

<210> 4711
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032f07b1

<400> 4711

ttttgtacct tgtgaaggat ctgctgcggc acgacacgag ccgcctcgag gacttcgccg 60

agctgctccg gcacaccgtc gccggggcgc ggcagtcctc gggcctcata atcaacaccc 120

tgggcgccat cgaggccgcc aacctggagc agatccgcga ggacctgtcg gtcccggtgt 180

tcgccgtcgc ccctctccac aaactggcgc cgtcggccaa gtccaccagc ctgggcgaga 240

cgcaggcaga ccgcggatgc ctcggctggc tcgacacgca ggagcccggc agcgtgctct 300

acgtgagctt cgggagcctg gccgtcatgg acccgcacga gttcgtggag ctggcgtggg 360

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<210> 4712
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032f08b1

<400> 4712

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ctacagatga taaaggaaga gatcttgtac ggtctccggt cgctttcttg gtccttcgag 120

gctctttttt tgggggggggg ccttttttggg ggtcccattt tccgttcggg ggcttgcgcc 180

gtttttgttt ttttttgggg gccccttatt tcttttcccg ggccgggttt ttcccccgtg 240

ggggcgggga aacccctggg ggtcccccct ttttttggtt tggaggaatt ttcccttttt 300

gccggttggg gttttttgcc aaggggcccc acccttggcc ttttcccccc tttggccccc 360

ttttttgggg gtcctggggc ccccccccttt gtttggcgtt tttttgcggg gggggggggg 420

gggggtttcc ccccccctggt gccccttt 448

<210> 4713
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032f09b1

<400> 4713

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gcagacccag aagagtccgt gtccgcaaca aatggcagta aacatggccc tcgggggcca 120

gtgtatctat gtggaggagc acatgacaaa agatgaactg agtgcccgtc tacgctcgct 180

gggtgcaaaa cagaaccgtg atgtcaagtc aaaggggggac aaaagaagaa ctggccctcc 240

gtgtggaaga tttaaaaagag gatctaggta acgcgaggcc taagcgtggc actgccc 297

<210> 4714
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032f12b1

<400> 4714

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acgaagccat ttttgcatct ctgcgagcga cttgggaagt tgagatccac tttgcagcgt 180

caaagatgaa gcggctgctc gttcatggcg ggaggggaat cggctgcccc tccaggagcg 240

cctgggagat ccctccgccc tgcccgcgct tggcaacagc gttctactgc ccaggtacca 300

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gacagcggag gagttcctga aaatggccaa ggagaagacc gac 403

<210> 4715
<211> 474
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032g05b1

<400> 4715

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gatgggtatg ttgatattgg tttttcaaat tgtacgagat gctgcctcct tggtcgcctc 180

tcttaaacct tatgtctcaa agcattaatg taatgtgaat gctaaaccgt aagttgaatg 240

gaacctatct ttccacaacc tattacctaa agagaagcca ttttatggtt cctaatatga 300

cattgagtgc tgtcatgcat gatttggtat aatgtttgcc gttgatttgg tatactattt 360

gcagttgtca cccagcacaa tttcttgatg aatggttaga tttgtattgc cctttccttg 420

gtttgccagt cactgtcagt tattaatact gaaacttctg tattgcaaaa cctt 474

<210> 4716
<211> 270
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316032g07b1

<400> 4716

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tgaggccctc ggatgcaggc tagctagatg gtggcttgtg gcgttgtagt attacatata 120

tctgtccaaa aaaatgtact actgagattg gagcagtaac cagagatttc atctcatcta 180

aaaaaaaaca actgaaaaaa aaaaaaaaac taaaagagac aaaaaaaaaa aataaaaatc 240

taaaaggaaa aaatgaaaaa agaagattga 270

<210> 4717
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032g08b1

<400> 4717

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ggtctttggt atgctgctgc tttggttctg cagagtaacc gtggcggagt ttgttctgc 120

acctctcgtt gcctggagcc tgggaacgat atccacggag ccacgctgct gtgctacatg 180

acaagaccaa gttgcccctt gcgtgctgcg tgttcactca ggtccatttc aacccatgcc 240

actttcccgg ggaatggggc cctgcctcgt ttcggttcct atccattgag ccaagtagtg 300

ctctgtgtgt agccaccgtg aaatcaatca atcaatcaat ggatccccac tagctgccgt 360

gcaatcatga actgggctga aata 384

<210> 4718
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032g09b1

<400> 4718

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caattgcaat cttctatggg tcattagcgg caataccatt tggtacaatg gttgtcattt 120

ttgtcctttg ggctttcata tcttttccac tggtgctttt gggaacggtc gttggtagaa 180

actggagtgg ggctcctaac aatccctgcc gagtaaagac tattccccgg cctattcccg 240

agaggaagtg gtaccttaca ccttctgtca tctcattgat gggtgggctg cttccctttg 300

gcagcatctt catcgagatg tactttgtgt tcacatcatt ctggaactac aaggtgtatt 360

atgtttaccg cttcaatgtc gctggtcttt gtcattcttc taatagttac aatctgtgtc 420

acaattgtcg gtactttatt tttgctgaat gctgagaact atcattg 467

<210> 4719
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032h02b1

<400> 4719

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tacaactctg ccgtgcttga tggcgcgaag cgtggcaact ccgtcgccac ctacctcccg 180

ctcgtcccaa ctgagcgcat tgcaagggtt ttcgccaacc cggccgacga cactgcgcct 240

gccacagctc ctgagatgca gcccatcccg acgcagtaac aataagagct acccggagtt 300

ctattattac ctaatagct 319

<210> 4720
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032h04b1

<400> 4720

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aggagtacgg ctacgtggtg ctcgtcgtgg tggcctacgc cttcctcaac ttctggatga 120

gcttgcaggt cggcgccgcc cgcaagaagt acaaggtgtt ctaccccacc atgtacgcca 180

ccgagtcgga gaacaaggac gccaagcgct tcaactgcgt ccagaggggg caccagaact 240

cgattgagat gatgccgctc ttcttcgcca cgctgctgct cggcggcctg cagcacccgg 300

tcgccgccgc cgcgctgggg ctgctctaca ccgtcgccag gttcttctac ttcaagggct 360

acgccaccgg ggtaccggag aaccgttaca agcttggggg gactaacttt ccgcgataat 420

ggggctgatc atctgactgg gtaaat 446

<210> 4721

<211> 480
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316032h10b1

<400> 4721

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tgctttggaa ctcgtctgta cttaggacta agattagaac caatagcgct ttcacgcaga 180

gtcaagcatc cgctgcaagc tctgcacagt atacagtggg tatatacgat gccttcggca 240

atacagctag tcccttctgg accgcgggtg gaggcgcatt tgcaccggat ttcggttctg 300

gtgttcctac aattactggt aacattgtcg tacgtggcgg tgttcttggt atacgcgtta 360

caaaccagag tgctgatact cagcctcaag aagtcaggat tacattgata cgtactggaa 420

gtcgtagggg agttgcacct tccgccatcg ncaataaaca gtcggatttg acataactca 480

<210> 4722
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316032h11b1

<400> 4722

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cagcagaaaa acccaggggg gccgcgtgta cgagccccag ggccccaacc gggccctgcg 120

ggggcttggg ccctctgagg gggtcaccat gacgaaagat accgggcgcg gtcttacagc 180

gtgcgggggg ggaccaccag gaccgtgccg cgctcccagc ggggagcgac agagcctctg 240

ggtccccggg ggg 253

<210> 4723
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033a03b1

<400> 4723

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caccgccccc gcgccgggcg ccaccccgcc caccggcgcg tcgccgtccc cgatggcctc 180

gcccccggac ccgcccaccg acgctccctc cgcgatgacg ccctccgcgg tctccgccac 240

gcccaccggt gccctcaccg gcgccccccgc gagctccgcc gcgtactctg ccgccgccag 300

cttcgtcgcc gccgccggcg cggtcgcaga cgtcatcatg ttctagatgt ggcgagggtc 360

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tactccgacg agattctttt tcggttc 447

<210> 4724
<211> 457
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: uC-tsro9316033a06b1

<400> 4724

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gtgaagctaa tgggcccgag gtcggtaaga agagttggat gcctgcatct tatcctggtg 120

gtccgcgctg tatgactgaa aacttctatg atggggtggc tgttttgcgt atgcatgcct 180

cgcctgatat aatcacaacc ttcacatgta gtccaaagtg gcctgaaata acggagagta 240

ctgaacctgg gcaaaaaaca gtcgataggt ctgacattac cgttcgagtg tatcgcttga 300

aacttcttga gtacctacag aaaatgagga cagggaggat gtttgggcct atagttgctg 360

atatccacgc aggggagttt cataagaggg agctgccgca tgcgtgtgtn cttgtttggc 420

aagagaagca tcatgactcg gtggtcacac caacttc 457

<210> 4725
<211> 490
<212> DNA
<213> Triticum aestivum

<223> Clone ID: uC-tsro9316033a07b1

<400> 4725